

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 14, 2004, 04:05:19 ; Search time 103 Seconds
(without alignments)

5430.976 Million cell updates/sec

Title: US-09-974-591-13

Perfect score: 1008

Sequence: 1 agctggagatctggaacttc.....ctccacgctctagggaagga 1008

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:*

1: /cgn2_6/prodata/2/ina/5A_COMB.seq:*

2: /cgn2_6/prodata/2/ina/5B_COMB.seq:*

3: /cgn2_6/prodata/2/ina/6A_COMB.seq:*

4: /cgn2_6/prodata/2/ina/6B_COMB.seq:*

5: /cgn2_6/prodata/2/ina/PTCUS_COMB.seq:*

6: /cgn2_6/prodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	297.8	29.5	1290	2	US-08-827-291A-1
2	243	24.1	669	4	US-09-465-901-39
3	241.2	23.9	1035	4	US-09-546-986A-1
4	241.2	23.9	1035	4	US-09-524-730-1
5	235.4	23.4	1411	4	US-09-546-986A-3
6	235.4	23.4	1411	4	US-09-524-730-3
7	235.2	23.3	952	4	US-09-016-434-1115
8	232.4	23.1	1065	4	US-09-546-986A-7
9	232.4	23.1	1065	4	US-09-524-730-7
10	229.6	22.8	951	4	US-09-465-901-47
11	226.4	22.5	966	3	US-08-748-506-7
12	225.6	22.4	1854	4	US-09-016-434-1312
13	222.6	22.1	1990	4	US-09-016-434-1056
14	222	22.0	1351	4	US-09-546-986A-5
15	222	22.0	1351	4	US-09-524-730-5
16	220.6	21.9	966	3	US-08-748-506-8
17	217.8	21.6	1282	4	US-09-016-434-1413
18	216.4	21.5	966	3	US-08-748-506-5
19	214.6	21.3	1062	4	US-09-568-680-10
20	213.6	21.2	1297	4	US-09-668-680-11
21	209.4	20.8	669	4	US-09-465-901-23
22	207.8	20.6	669	4	US-09-465-901-19
23	207.8	20.6	669	4	US-09-465-901-27
24	206.4	20.5	966	3	US-08-748-506-6
25	201	19.9	945	4	US-09-016-434-1114
26	199	19.7	1080	4	US-09-668-680-9
27	198	19.6	1713	2	US-08-467-948A-1

28 198 19.6 1713 3 US-08-467-947A-1 Sequence 1, Appli
29 197 19.5 1438 4 US-09-016-434-1313 Sequence 1313, Ap
30 193.2 19.2 3459 4 US-09-016-434-1363 Sequence 1363, Ap
31 183 18.2 669 4 US-09-465-901-11 Sequence 11, Appl
32 168 16.7 669 4 US-09-465-901-13 Sequence 13, Appl
33 167.8 16.6 681 4 US-09-465-901-29 Sequence 29, Appl
34 166 16.5 669 4 US-09-465-901-41 Sequence 41, Appl
35 165 16.4 678 4 US-09-465-901-45 Sequence 45, Appl
36 162.2 16.1 648 4 US-09-016-434-1374 Sequence 1374, Ap
37 161.2 16.0 669 4 US-09-465-901-31 Sequence 31, Appl
38 160.4 15.9 675 4 US-09-465-901-43 Sequence 43, Appl
39 160 15.9 669 4 US-09-465-901-25 Sequence 25, Appl
40 158 15.7 675 4 US-09-465-901-17 Sequence 17, Appl
41 157 15.6 900 3 US-09-085-371-5 Sequence 5, Appli
42 156.8 15.6 669 4 US-09-465-901-37 Sequence 37, Appl
43 152.2 15.1 648 4 US-09-016-434-1375 Sequence 1375, Ap
44 152 15.1 669 4 US-09-465-901-15 Sequence 15, Appl
45 147 14.6 648 4 US-09-016-434-1376 Sequence 1376, Ap

ALIGNMENTS

RESULT 1

US-08-827-291A-1
; Sequence 1, Application US/08827291A
; Patent No. 5874243
; GENERAL INFORMATION:
; APPLICANT: Macina, Roberto
; APPLICANT: Sathe, Ganesh
; TITLE OF INVENTION: NOVEL OLRCC15 RECEPTOR
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SmithKline Beecham Corporation
; STREET: 709 Swedeland Road
; CITY: King of Prussia
; STATE: PA
; COUNTRY:
; ZIP: 19406
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/827,291A
; FILING DATE: 28-MAR-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: King, William T
; REGISTRATION NUMBER: 30,954
; REFERENCE/DOCKET NUMBER: GP50001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-270-5015
; TELEFAX: 610-270-5090
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1290 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-827-291A-1

Query Match 29.5%; Score 297.8; DB 2; Length 1290;
Best Local Similarity 57.4%; Pred. No. 8.2e-83;
Matches 536; Conservative 0; Mismatches 397; Indels 0; Gaps 0;

QY 45 CACAGCATGGAGCTCTGGAACTTCACCTTGGGAAGTGGCTTCATTTTGGTGGGATTCTG 104

Db 290 CACATCATGGCAGGAGAAATTCGACCTTCAACTCCGACTTCATCTCTCTGGGAATCTTC 349
Qy 105 AATGACAGTGGTCTCTGAACTGCTGTGTACTAATAAATCAATCTTATCTTGTGGCC 164
Db 350 AATCAGAGCCCAACACCTTCTCTTCTTCTGTGTCTGGGCACTCTTTCAGTGGCC 409
Qy 165 CTGATCAGCAATGCGCTACTGCTCTCTGGCTATCAACCATGGAAGCCCGCTCCACATGCC 224
Db 410 TTCAATGGAAACTCTGTCAATGTTCTCTCATCTACCTGGACCCAGCTCCACACCCC 469
Qy 225 ATGTACCTCTGTGTGGGAGCTCTCTCTCATGAGACCTCTCTGTTCACATCTGTGTCACT 284
Db 470 ATGTACCTCTCTCTCAGCAACTGCTCTCTCATGACCTCATCTGTCTCATGACCCGTA 529
Qy 285 CCCAAGGCCCTTGGGACTTCTCTGGCAGAGAAACCACTCTCTTGTGGGCTGTGCC 344
Db 530 CCCAAGATGGCTTCAACTCTCTCTGGCAGAGGCTCACTTCTATGCTGTGTGTGCC 589
Qy 345 CTTGAGATGTTCTCTGGCACTGACAAATGGGTGGTCTGAGGACCTCTCTACTGGCCTTCATG 404
Db 590 ACACAAATTTCTCTATACATCACTGCTTGGCTCTGAATGCTTCTTGTGGCTGTATG 649
Qy 405 GCCTATCAGAGTATGAGGCAATTTGTCTCTCTGATCATATGACATGACCCCTCATGAGCTCA 464
Db 650 GCTTATGACCGCTACACTGCGCAATTTGCGCCCTCTAAGATACACCAATCTCATGAGCCCT 709
Qy 465 AGAGCCTGCTGGCTCATGTTGGCGCACGCTCTGGATCTCTGGCATCCCTAAGTGCCTAATA 524
Db 710 ABAATTTGTGACTTATGACTGCTCTCTCTGATCTCTGGCTCTCAGATGGAATCAT 769
Qy 525 TATACCGTGTATACCATGCACTATPCTCTCTGAGGCGCCAGGAGATCAGGCACTCTCTC 584
Db 770 TATGCTGTAGCCACATTTCT 829
Qy 585 TGTGAGATCCACATCTGCTGAACTGTGGCTGTGCTCTATCATCTCCAGATGAGCTCATG 644
Db 830 TGTGAGTATCT 889
Qy 645 GTATATGTGATGGGTGAGCT 704
Db 890 ATTTCTATTTGCTATAGTAAGTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 949
Qy 705 ACACAAATTTACTACTGCTCTCATATGCAATCAATGAGGAGGAGGAGGAGGAGGAGG 764
Db 950 GCTGGAGTTATCTGGCTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1009
Qy 765 GTCACTGCT 824
Db 1010 ACAGCTGTCT 1069
Qy 825 TATGTCTTGGCCAGTCT 884
Db 1070 TACATACAGCCCATCTGTATGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1129
Qy 885 ACAATGTCT 944
Db 1130 ACCATCT 1189
Qy 945 CGGCGCTTGGAGGCT 977
Db 1190 AGAGCATTCATGAGATCT 1222

RESULT 2

US-09-465-901-39
; Sequence 39, Application US/09465901
; Patent No. 6492143
; GENERAL INFORMATION:
; APPLICANT: Reed, Randall
; APPLICANT: Yau, King-Wai
; APPLICANT: Krautwurst, Dietmar
; TITLE OF INVENTION: Olfactory Receptor Expression Libraries

; TITLE OF INVENTION: ad Methods of Making and Using Them
; FILE REFERENCE: 001107.00105
; CURRENT APPLICATION NUMBER: US/09/465,901
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: 60/112,605
; PRIOR FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 669
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; OTHER INFORMATION: PCR primer
US-09-465-901-39

Query Match 24.1%; Score 243; DB 4; Length 669;

Best Local Similarity 60.3%; Pred. No. 7.3e-66;
Matches 402; Conservative 0; Mismatches 265; Indels 0; Gaps 0;
Qy 241 GGAGCTCTCTCTCATGGACCTCTCTGTTCACATCTGTCTGTCACCTCCCAAGGCCCTTGGC 300
Db 2 GTCACTGTCTCTTCATTCATGATGATGATGATGATGATGATGATGATGATGATGATGATG 61
Qy 301 ACTTTCTGCGAGAGAAACACCATCTCTCTTTGGAGCTGTGCCCTTCAGATGTTCCTGG 360
Db 62 ATTATCTCTAGGGCAAGGACTATTTCTTTTGGGATGACAGCTCAACACTTCTAT 121
Qy 361 CACTGACAAATGGGTGGTCTGAGACCTCTCTACTGCTCTTCTGAGCTGTGCCCTTACAGAGTATG 420
Db 122 ACCTCACTCTGGTGGGAGCGAGTCTCTCTCTGGGCTCATGGCTTATGATGCTATG 181
Qy 421 TGGCCATTTCTCATCTCTCTGACATACATGACCTCATGAGCTCAAGAGCTGTGGCTCA 480
Db 182 TGGCCATCTGCAACCACTGAGTACCTCTCTCTGAGCGCGGATCTGTGGATTA 241
Qy 481 TGTGGCCAGTCTCTGATCTCTGATCTCTGATCTCTGATCTCTGATCTCTGATCTCTGAT 540
Db 242 TCATAGCAGCTCTCTGTTGGGGATCTTTGGATGGCTTCTCTCTCTCTCTCTCTCTCTCA 301
Qy 541 TGCATATCTCTCTCTGAGGCGCCAGGAGATCAGGATCTCTCTCTGAGATCCACACT 600
Db 302 TGAGTTTCTCTCTCTGATACAGAGATTAACCACTCTCTCTCTGAGGCACTCTCTG 361
Qy 601 TGCTGAAGTTGGCTGTCTGATACCTCCAGATGATGATGATGATGATGATGATGATGATG 660
Db 362 TGCTGAAGTTGGCATGTGAGACACACCCCTCTATGAGCGGTGATGATGATGATGATG 421
Qy 661 TGACCTTCTGATTCCTCTCTCTGCTATACCTGCTCTCTATACACAAATCTCTACTCA 720
Db 422 TTCTGATGCTGTGATTCCTCTCTCTGCTATCTCTCTCTCTCTCTCTCTCTCTCTCTCT 481
Qy 721 CTGTGCTCATATGCCATCAATGAGGGGAGGAGAGGCTTGTACCTGCTCTCTCTCTCT 780
Db 482 CTGTGCTCATATGAGCTCTGTGGAAGGAGGAGGAGGCTTGTACCTGCTCTCTCTCT 541
Qy 781 ACCTGATGCTGTGGATGTTCTATGAGCTGCGCACTCATGATGATGATGATGATGATG 840
Db 542 ACATGATGCTGTAACCTGTTTATGGGCTGCCATATACCTATATGATGATGATGATG 601
Qy 841 CTTTCCACAGCACAGACAAACATCATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCA 900
Db 602 CTTTACCATTCCCATCCCAAGAAAAATTTTTCTGTGTTCTATACCATTTCTCACACCCA 661
Qy 901 CCCTGAA 907
Db 662 TGTGAA 668

RESULT 3

US-09-546-986A-1
; Sequence 1, Application US/09546986A
; Patent No. 6635741

```

; GENERAL INFORMATION:
; APPLICANT: Powers, Scott
; APPLICANT: Yang, Jianxin
; APPLICANT: Cutler, Gene
; APPLICANT: Tularik Inc.
; TITLE OF INVENTION: No. 6635741el G-Protein Coupled Receptors
; FILE REFERENCE: 018781-004720US
; CURRENT APPLICATION NUMBER: US/09/546,986A
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 09/524,730
; PRIOR FILING DATE: 2000-03-14
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 1035
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (42)..(974)
; OTHER INFORMATION: human breast cancer amplified G-protein coupled
; OTHER INFORMATION: receptor 1 (BCA-GPCR-1)
US-09-546-986A-1

Query Match      23.9%; Score 241.2; DB 4; Length 1035;
Best Local Similarity 56.0%; Pred. No. 3.4e-65;
Matches 456; Conservative 0; Mismatches 358; Indels 0; Gaps 0;

Qy 153 TACTTGTGGCCCTGATCAGCAATGGCTACTGTCTCTGGGCTATCACCATGGAAGCCCGG 212
Db 135 TATGTGCTGGCCATGTTGGGAAAGCTGGCAATCTCTGGGATCCGGGTGGATCTCTCAA 194

Qy 213 CTCACATGCCCATGTACTCTCTCTGGGAGCTCTCTCTCATGGACCTCTCTGTTCACA 272
Db 195 CTCACAGCCCCATGTACATCTTCTCTAGTCACCTGTCTCTCTCTGGACCTCTGTCTACACC 254

Qy 273 TCTGTGTGTACTCCAGAGGCCCTTGGCGAGCTTTCTGGCGCAGAAAACACCATCTCTCTTT 332
Db 255 ACCACGACAGTCCCTCAGATCTGTCTCAACATGGGCAGTTCCTCCAGAACCATCAGCTAT 314

Qy 333 GGAGGCTGTGCCCTTCTCAGATGTTCTCTGGCACTGACAATGGGTGGTGTGAGACCTCCTA 392
Db 315 GGAGGCTGCATCTGTGCAATATGAGTCTTTCACCTGGCTGGGATGACGAGTGCATCGTC 374

Qy 393 CTGGCCCTTCATGGCCCTATGACAGGTATGTGGCCATTTGTCTATCTCTGACATACATGACC 452
Db 375 CTGGCCGCCCATGGCCCTGACCGCTACGTGGCCAGCTGCAAGCCCTCTACATATGCGCTT 434

Qy 453 CTCATGAGCTCAAGAGCCCTGTGGCTCATGTGTGGCCAGTCTCTGGATCTGTGGCATCCCTA 512
Db 435 CTCATGACACCGTGTCTCTGTGCAGAGCTCGTGGCTCTGGCCCTGAGTCTCAGTGGCTTCGGC 494

Qy 513 AGTGCCTCAATATACCGTGTATACCATGCACTATCCCTCTCGAGGCCGCCAGAGATC 572
Db 495 AACTCTCTCTGTGAGGTGGTCTCTGACGGTGGCAATTTGCCATCTCTGGGGGGGAGTGTGTG 554

Qy 573 AGGCATCTTCTCTGTGAGATCCCACTCTGTCTGAAAGTTGGCCCTGTGCTGATACCTCCAGA 632
Db 555 AACAACTTTTCTGTGAGGTGCGGCCCGGTGATCAAGAGTGTCTGTGTGCTGACACCGCTATG 614

Qy 633 TATGAGCTCATGGTATATGTGATGAGGTGTGACCTTCTCTGATTCCTCTCTTGTCTGCTATA 692
Db 615 AATGACACCACTAGCTGTGTCTGGTGGCCCTTCTTCTGTGTGGTGGCCCTGCTCTCATTC 674

Qy 693 CTGGGCTCCTATACAAATTTCTACTCACTGTGTCTCCATATGCCATCAATCAGGGGAGG 752
Db 675 CTTCTCTCTATAGGCTTTATTCGCCGGGAGTGTCTCAGGATCAAGTCTCTCCAAAGGAGCA 734

Qy 753 AAGAAAGCCCTTGTACACCTGTCTTCCACACCTGACTGTGGTGGGATGTTCTATGGAGCT 812
Db 735 CACAAGGCCCTTTGGGACGTGTTCTTCCACCTGATGATGCTCTCCCTCTTCTACCTACT 794

Qy 813 GCCACATTCATGTATGTCTTGGCCAGTTCCTTCCACAGCACCAGACAAGACAACATCATC 872

```


Db 431 GCCATCACATCTGGGTCAGTGGCTTCATCAGCTCTCTGTGAGAGTGTCTATCACCTTT 490
QY 543 CACTATCCCTCTGACGGCCAGAGATCAGGATCTTCTCTGTGAGATCCCACTTG 602
Db 491 CAGTGCCCATGTGAGAAACAGTTTATTGATCACATATCCTGTGAATCCTAGCTGTG 550
QY 603 CTGAAGTTGGCTGTGTGATACCTCCAGATATGAGCTCATGGTATATGTGATGGGTGTG 662
Db 551 GTCAGGCTGGTGTGTGACACCTCTCCATGAGGTCACTATGTTGTAGCATTT 610
QY 663 ACCTTCCTGATTCCTCTCTGTGTGATATCTGTGCTCTTATACACAAATCTACTCACT 722
Db 611 GTTCTTCTGATGACACCCCTCTGCTGCTTCTTTTGTCTTACATCCAGATCATCTCCACC 670
QY 723 GTGCTCCATATGCCATCAATATGAGGGAGGAAGAACCCCTGTGACCTGTCTTCCAC 782
Db 671 ATCTAAAGATTCAGTCCAGAAAGGAAGAAAGCTTTTCCACAGTGTGCTCTCAC 730
QY 783 CTGACTGTGGTGGGATGTTCTATGAGCTGCCACATTCATGTATGTCTTGGCCAGTTCC 842
Db 731 CTCACAGTGTGCTGTGATGTTGTGCTGTCCTTCTTACTTATCCAGGCCCTCTCC 790
QY 843 TTCACAGCACCAGAAAGAACATCATCTCTGTTTTTCTTACAAATGTCTCCAGCC 902
Db 791 AGTCCCTCTGTCTCTCAGGAGAGTTGTTCTCTGCTTTTATGCCATTTTAAACACCAATG 850
QY 903 CTGAATCCACTCATCTACAGCTGAGGAATAAGGAGGTCTATGCGGCTTGTGAGGGTCTC 962
Db 851 CTGAACCCCATGATTTACGCTTAAGGATTAAGAGGTGAAGGGGCTTGGCAGAAACTA 910
QY 963 CTGGGAAATPAC 974
Db 911 TTATGGAAATTC 922

RESULT 8

US-09-546-986A-7
; Sequence 7, Application US/09546986A
; Patent No. 6635741
; GENERAL INFORMATION:
; APPLICANT: Powers, Scott
; APPLICANT: Yang, Jianxin
; APPLICANT: Cutler, Gene
; APPLICANT: Tularik Inc.
; TITLE OF INVENTION: No. 6635741el G-Protein Coupled Receptors
; CURRENT APPLICATION NUMBER: US/09/546,986A
; PRIOR FILING DATE: 2002-04-30
; PRIOR FILING DATE: US 09/524,730
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 1065
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (26)..(1030)
; OTHER INFORMATION: human breast cancer amplified G-protein coupled
; OTHER INFORMATION: receptor 4 (BCA-GPCR-4)
US-09-546-986A-7

Query Match 23.1%; Score 232.4; DB 4; Length 1065;
Best Local Similarity 53.8%; Pred. No. 1.9e-62;
Matches 479; Conservative 0; Mismatches 411; Indels 0; Gaps 0;
QY 81 GGCTTCATTTGGGGGATCTCTGAATGACAGTGGGTCTCTGAATGCTCTGTGTACA 140
Db 116 GGTTTCATCTTTAGGGTTTCTGATTATGCTCAGTTACAGAAAGTTCTATTGTGCTC 175
QY 141 ATTACATCTTATCTGTTGGCCCTCATCAGCAATGGCTACTGCTCTGGCTATCAC 200

Db 176 ATATTGATCTGTATTTACTAACTATTTTGGGGAATACCACTCATTTCTGGTTTCTCGT 235
QY 201 ATGGAAGCCGGCTCCACATGATCCCATGTAATCTCTGCTTGGGAGCTCTCTCTCATGAC 260
Db 236 CTGGAACCCAGCTTCATATGCCGATGATTTCTTCTCTCTCTCTCTCTCTCTCTCTCT 295
QY 261 CTCCTGTTCATCTGTGTCACATCCCAAGCCCTTGGGACTTTCTGCGCAGAGAAAC 320
Db 296 CGCTGCTTACAGCAGTGTATTTCCCGAGCTCTCTGTAACCTGTGGGAACCCATGAAA 355
QY 321 ACCATCTCTTTGGAGCTGTGCTTTCAGATGTCTGACATGACAAATGGGTGTGCT 380
Db 356 ACTATCGCTATGTGCTGCTTTTGGTTTCACTTTTACAACTCCCATGCCGTGCTCTC 415
QY 381 GAGGACCTCTCTGCTGCTTTCATGGCTTATGACAGGTATGTGGCATTTGTCTCTCTG 440
Db 416 GAGTGGCTCTCTCGGCTCTGATGTCTGTGACCGCTATGTGGCTGTCTCCGCTCTC 475
QY 441 ACATATCATGACCTCTCATGAGCTCAAGAGCTGTGCTCATGTGGTGGCAAGTCTCTGATC 500
Db 476 CATTTACTGTCTTAATGCAATATCCATCTCTGCAATGGCTTGGCATCTATGGCATGGCTC 535
QY 501 CTGCAATCCCTAAGTGCCTTAATATATACCGTGTATACCAATGCACTATCCCTTCTGAGG 560
Db 536 AGTGAATAGCCACACCCCTGTGACAGTCCACCTCACCCTGACAGCTGCCCTTCTGTGG 595
QY 561 GCCCAGGAGATCAGGATCTCTCTGTGAGATCCCACTTGTCTGAATGGCTGTGCT 620
Db 596 CATCGCCAAAGTGGATCATTTTCTCTGCGAGGTCCCTGTGCTCATCAAGCTGGCTTGTGTG 655
QY 621 GATACCTCCAGATATGAGCTCATGGTATATGTGATGGTGTGAGCTTCTCTGATCCCTCT 680
Db 656 GGCACCACTGTTAAACGAGGCTGAGCTTTTGTGGCTAGTATCTTTTCTTATAGTGGCT 715
QY 681 CTGTGCTATATCTGCTCTCTATACAAATTTCTACTCTGTGTCTCATATGCAATCA 740
Db 716 GTCTCATTTCTCTGCTCTCTCTGCTCATTTGCCCCACGAGTGTGTGAGGATTAAGTCA 775
QY 741 AATGAGGGAGGAAGAAAGCCCTTGTACCTGTCTTCCACCTGAGCTGGTGGATG 800
Db 776 GCTACCGGGAGAGAGAAAGCAATTCGGGACCTGTCTTCCACCTGACAGTGGTCAACCATC 835
QY 801 TTCTATGGAGTGCACATTTCTATGTCTTGTCCAGATTTCTTCCACAGCACCAGACAA 860
Db 836 TTTTATGGAACTCATCTTCTATGATCTGACGAGCAGCAAGATAGATCCAGGACAG 895
QY 861 GACAACTATCTCTGTTTTCTACAAATTTGTCTCACTCCAGCCCTGAATCCACTCATCTAC 920
Db 896 GGCAAGTTTGTCTCTCTCTTCTACACTGTGTGTAACCCGATGTCTTAACCCCTCTATTAT 955
QY 921 AGCTGAGGAATAAGGAGGTCTATGCGGCTTCTGAGGAGGTCTCTGGGAAA 970
Db 956 ACCTTGAGGATCAAGAGGTGAAAGGGGCAATTAAGAAAGTTCTTAGCAAA 1005

RESULT 9

US-09-524-730-7
; Sequence 7, Application US/09524730
; Patent No. 6638733
; GENERAL INFORMATION:
; APPLICANT: Powers, Scott
; APPLICANT: Yang, Jianxin
; APPLICANT: Cutler, Gene
; APPLICANT: Tularik Inc.
; TITLE OF INVENTION: No. 6638733el G-Protein Coupled Receptors
; FILE REFERENCE: 018781-004710US
; CURRENT APPLICATION NUMBER: US/09/524,730
; CURRENT FILING DATE: 2000-03-14
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 1065
; TYPE: DNA

```
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (26)..(1030)
; OTHER INFORMATION: human breast cancer amplified G-protein coupled
; OTHER INFORMATION: receptor 4 (BCA-GPCR-4)
US-09-524-730-7

Query Match      23.1%; Score 232.4; DB 4; Length 1065;
Best Local Similarity 53.8%; Pred. No. 1.9e-62;
Matches 479; Conservative 0; Mismatches 411; Indels 0; Gaps 0;

QY 81 GCCTTCATTTTGGTGGGATTCGATGACATGGGTCCTCGAAGCTGCTGTGCTACA 140
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 116 GGTTCATCCTTTTAGGGTTTCTGATATGCTCAGTTACAGAAGGTTCTATTGGTCT 175
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 141 ATTACAATCCTATCTTGTGGCCCTGATCAGCAATGGCTACTGCTCGCTATCACC 200
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 176 ATATTGATCTGATTACTAATATTTTGGGGAATACCACCATCATTCGTCTCTGT 235
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 201 ATGGAAGCCCGCTCCACATGCCCATGTACCTCTCTGTTGGGCGAGCTCTCTCATGAGAC 260
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 236 CTGGAACCAAGCTTCATATGCCGATGATTCTCTCTCTCATCTCTCTCTCTCTGATC 295
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 261 CTCCTGTTACATCTGCTGCTACCTCCCAAGGCCCTGCGAGCTTCTGCGCAGAGAAAC 320
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 296 CGCTGCTTACAGCAGTGTTATCCCCAGCTCTGTTAAACCTGTGGAAACCCATGAAA 355
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 321 ACCATCTCCTTTGGAGGCTGTGCCCTTCAGATGTTCTCTGGCACCTGACAAATGGGTGCT 380
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 356 ACTATCGCTATGTGGCTGTTGGTTACCTTTACCTCCATCCCATGCCCTGGATCCACT 415
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 381 GAGGACCTCCTACTGGCCTTCATGCGCTATGACAGATATGAGGCAATTTGTCTATCTCTG 440
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 416 GAGTGGCTCTCCCGCTCTGATGCTCTGTGACCGCTATGTGGCTCTGTGCGGCTCTCTC 475
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 441 ACATACATGACCTCATGAGCTCAAGAGCTGTGCTCATGGTGGCCACGCTCTGGATC 500
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 476 CATTACATGTCCTTAATGCATATCCATCTCTGCATGGCCTTGGCATCTATGGCATGGCTC 535
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 501 CTGGCATCCCTAAGTCCCTTAATATACCGTGTATACCATGCACTATCCCTTCTGCAGG 560
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 536 AGTGGATAGCACCACTCTGTGTACAGTCCACCTCACCTGCAGCTGCCCTCTGTGGG 595
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 561 GCGCAGGAGATCAGGCATCTTCTGTGAGATCCCACTATGCTGAAGTTGGCTGTGCT 620
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 596 CATCGCAAGTGGATCATTTTCATCTGCGAGGTCCTGTGCTCATCAAGCTGGCTTGTGTG 655
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 621 GATACCTCAGATATGAGCTCATGGTATATGATGGGTGACCTTCTGATTCCTCT 680
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 656 GGCACCACTTTAACGAGGCTGAGCTTTTGTGGCTAGTATCTTTCTCTTATAGTGCT 715
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 681 CTTGCTGTATATCTGGCCTCCTATACACAAATCTACTCACTGTCTCCATATGCCATCA 740
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 716 GTCTCATTCCTGTCTCTCTGTGCTACATTTGCCACGCGAGTGTGAGGATTAAGTCA 775
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 741 AATGAGGAGGAGAAAGCCCTTGTCACTGTCTTCCCACTGACTGTGTTGGTGGATG 800
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 776 GCTACCGGAGACAGAAAGCAITCGGGACCTGTCTTCCACCTGACAGTGTGCACATC 835
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 801 TTCATAGGAGTCCACATTCATGATGTCTTGGCCAGTTCCTTCCACAGCACCAGCAA 860
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 836 TTTATAGGAACCATCATCTTCATGTATGTGACGCGCAGCAAGATGATCCAGGGACCAG 895
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 861 GACAAATCATCTCTGTTTCTACAAATGTCTCACTCCAGCCCTGAACTCCACTCATCTAC 920
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 896 GGCAGGTTTGTCTCTCTCTACATGTTGTAACCGCATGCTTAACCTCTTATTTAT 955
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 921 AGCCTGAGGAATAGAGGTCATCGCGGCTCTGAGGAGGCTCTGGGAAA 970
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 956 ACCTTGAGGATCAAGGAGTGAAGGGGCATTAAGAAAGTTTCTAGCAA 1005
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

```
RESULT 10
US-09-465-901-47
; Sequence 47, Application US/09465901
; Patent No. 6492143
; GENERAL INFORMATION:
; APPLICANT: Reed, Randall
; APPLICANT: Yau, King-Wai
; APPLICANT: Krautwurst, Dietmar
; TITLE OF INVENTION: Olfactory Receptor Expression Libraries
; TITLE OF INVENTION: ad Methods of Making and Using Them
; FILE REFERENCE: 001107.00105
; CURRENT APPLICATION NUMBER: US/09/465,901
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: 60/112,605
; PRIOR FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 951
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; OTHER INFORMATION: PCR primer
US-09-465-901-47
```

```
Query Match      22.8%; Score 229.6; DB 4; Length 951;
Best Local Similarity 53.9%; Pred. No. 1.4e-61;
Matches 494; Conservative 0; Mismatches 419; Indels 3; Gaps 1;

QY 62 GAACTTCACCTTGGGAAGTGGCTTCATTTTGGTGGGATTTCTGAATGACAGTGGGTCTCC 121
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 122 TGAATGCTCTGTGCTACAAATTAACAATCTATCTTGTGGCCCTGATCAGCAATGGGCT 181
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 66 GGTGTCATATTCCTGGGCTTCTCTGACCTACTTCTCTCATCTCTGCTGGGAACTTCTCT 125
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 182 ACTGCTCTCTGCTATCACCATGGAAGCCGGCTCCACATGCCCATGTACCTCTGCTTGG 241
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 126 CATCATCTTCATCACCTTGTGGAGCGGCTTTTACACCCCATGTATATCTTCTCCG 185
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 242 GCAGCTCTCTCATGGACCTCCTGTTCACATCTGTCTGCTCACTCCCAAGCCCTTGCAGA 301
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 186 GAACTTGGCATGCTGGAGATCTGTTTCACTCTGTCTCTTCCCAAGATGCTAACCA 245
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 302 CTTTCTGGCGCAGAAAAACCACTCTCTTGGAGGCTGTGCCCTTTCAGATGTTCTTGGC 361
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 246 CATCATCAGGACATTAAGACCATCTCCCTACTAGGTTGTTTCTCCCAAGCATTCCTCTA 305
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 362 ACTGACATGGTGGTGGTGGAGCCTCTCTGCTTTCATGGCCTATGACAGGTATGT 421
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 306 TTTCTTCTTGGCACCACCTGAGTCTTTTCTACTGGCAGTGAITGCTTCTGACAGGTATGT 365
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 422 GGCCATTTTGTCTCTCTGACATATACATGACCTCATGAGCTCAAGAGCCTGTGGCTCAT 481
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 366 GGCCATTTTGTACCTTTTGGCTTATGCCACCATATGAGCAAAAGAGTCTGTGTCAGCT 425
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 482 GGTGGCCAGCTCTGATCCTGGCATCCTTAAGTGCCTTAATATATACCGTGTATACCAT 541
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 426 TGTGTTTGTCTCATGATGCTGTGATGCTTCTCTCATCATAGTTCCTTCTTCAATTTAT 485
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 542 GCATATCTCTTCTGAGGCGCCAGAGATCAGGATCTTCTCTGTGAGATCCACACTT 601
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 486 TCAGCAGCCATCTGTGGCCCAACATCAATTAATCATTTCTTCTGTGACAACTTTCCAT 545
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 602 GCTGAAGTTGGCTGTGCTGATACCTCCAGATATGAGCTCATGGTATATGTGATGGGT 661
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 546 TATGGAATCATATGTGACAGTACTAGCTGTGAGAGTTCCTGGGTTTGTGTTATGSCAA 605
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 662 GACCTTCTGATTCCTCTCTTGTGCTATATCTGGCCTCTCTATACAAATTTCTACTAC 721
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 606 TTTACGCTCTGGGCACTCTGCTGTGACTGCACTCTGCTATGGCCACATCTCTTATAC 665
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

QY 722 TGTGCTCCATATGCCATCAATAGGGAGGAGAAAGCCCTTGTACCTGCTCTTCCCA 781
Db 666 CATCTACATCTCTTTCAGCAAGGAGAGGAGAAAGCCCTTCTCAACTTGTCTCTCA 725
QY 782 CCTGACTGTGTTGGGATGTTCTATGAGCTGCCACATTCATGATGCTTGGC---CAG 838
Db 726 TATTATTTGTGTCTCTCTTCTACGGAGCTGTATCTTCAATGATGTCCGGTCTGGCA 785
QY 839 TTCTTCCACAGCACACAGCAAGCAACATCATCTCTGTTTCTTACACAAATTTGCTCTCC 898
Db 786 GAATGAGACAGGGAGGATCATAACAGGTGGTGGCATTCCTCAACTGTAGTGACACC 845
QY 899 AGCCTGAATCCATCTATCTACAGCTGAGCAATAGAGAGTCTATGCGGCTTTGAGGAG 958
Db 846 CACACTCAACCCCTCTATCTACACTCTCAGGAAACAGCAGGTGAAGCAGGTATTAGGGA 905
QY 959 GGTCTCTGGGAAATAC 974
Db 906 ACAGTTAAGCAAGTTC 921

RESULT 11

US-08-748-506-7
; Sequence 7, Application US/08748506
; Patent No. 6159707
; GENERAL INFORMATION:
; APPLICANT: Ronnett et al.
; TITLE OF INVENTION: NOVEL SPERM RECEPTORS
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Leydig, Voit & Mayer, Ltd.
; STREET: Two Prudential Plaza, Suite 4900
; CITY: Chicago
; STATE: IL
; COUNTRY: US
; ZIP: 60601-6780
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/748,506
; FILING DATE: 08-NOV-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/033,751
; FILING DATE: 09-NOV-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; REFERENCE/DOCKET NUMBER: 74940
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-616-5600
; TELEFAX: 312-616-5700
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 966 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-748-506-7

Query Match 22.5%; Score 226.4; DB 3; Length 966;
Best Local Similarity 54.8%; Pred. No. 1.4e-60;
Matches 449; Conservative 0; Mismatches 371; Indels 0; Gaps 0;
QY 148 TCGTATCTTGTGGCCCTGATCAGCAATGGCTACTGCTCTGGCTATCACCATGGAAG 207
Db 116 TCAATGTTCTTAGTATCACTAACAGGAATACTCTCATAGCCCTTGTCTATTGTACCATGC 175
QY 208 CCCGGTCCACATGCCCATGTACTCTGTTGGGAGCTCTCTCATGAGCACTCTCTGT 267

Db 176 CATCTCTACACACCCCCCATGTACTTCTTTCTGGCCAACTTGTCTCTCTCTGGAGATTGGCT 235
QY 268 TCACATCTGTCTGCTCACTCCCAAGGCCCTTGTGGGACTTTCTGGCGCAGAGAAAACACCATCT 327
Db 236 ATACTTCTCTGTCTATACCCCAAGATGCTGCAGAGCCTTGTGAGTGAGGCCCGGAGGATCT 295
QY 328 CTTTGGAGGCTGTGCCCTTTCAGATGTTCTCTGGCACTGACAAATGGGTGGTCTGAGGACC 387
Db 296 CTTGGGAGGGTGTGGCTCTACAGATGTTCTTCTTCAATTTCTTTGGTATAAATCAGTGTCT 355
QY 388 TCCTACTGGCTTCATGCGCCTATGACAGGTATGTGGCCATTTGTCACTCTCTGACATACA 447
Db 356 GCCTATTGGAGGCATGGCCCTTTGACCGCTATATGGCTATATGTTCCCACTCCACTATG 415
QY 448 TGACCTCTCATGAGCTCAAGAGCCTGTGGCTCATGTGGCCACCTCTCGATCCTGATCCTGCA 507
Db 416 CAACCCGAATGAGTCTGGGGTATGTCCCTATTGTCGAATTTGTCATGGGTGATGGAT 475
QY 508 CCCTAAGTGCCCTAATATATACCGTGTATACCATGCACTATCCCTCTCTGAGGCCCCAGG 567
Db 476 GCATAGTAGGTCTGGGACAGACCAATTTTATTTCTCTCTTGAACCTTCTGTGGACCTGTG 535
QY 568 AGATCAGGCATCTCTCTGTGAGATCCCACTGTGCTGAAAGTTGGCCTGTGCTGATACCT 627
Db 536 AGATAGACCCTTCTTCTGTGACCTTCCACCTCTCTCTGGCACTTGCCTGTGGTATACAT 595
QY 628 CCAGATATGAGCTCATGGTATATGTATGGTGTGAGCTTCTCTGATTTCCCTCTCTCTGCTG 687
Db 596 CCCAAATGAGGTGCCATCTTTGTGGCAGAGTGTCTGCAATATTTAGTCCATTTTAC 655
QY 688 CTATCTGCGCTCTCTATACAAATTTCTACTCTGTCTCCATATGCCATCAAAATGAGG 747
Db 656 TGATCATTTCTTCTATGTGAGAAATCTGTTGAGTGTCTGCTGAGTGTGCTTCACTGAGG 715
QY 748 GAGGAGAGAAAGCCCTTGTGCTGATGTGGTGTGAGCTTCTCTGATTTCCCTCTCTCTGCTG 807
Db 716 GCGGCCATAAAGCTCTCTTACCTGTTCATCTCACCTACTTGTAGTACACACTCTCTCTATG 775
QY 808 GAGCTGCCACATTCATGTATGTCTTGGCCAGTTCTTCCACAGCACCAGACAAAGACA 867
Db 776 GCTCAACATCTGCCACTATTGAGGTCCAGTCTAGCCACTCACCGAGGTGAGCAAAAC 835
QY 868 TCATCTCTGTTTCTACAAATTTGTCACTCCAGCCCTGAAATCCACTCATCTACAGCCTGA 927
Db 836 TCTTGGCCCTCTTCTATACATCATGATCATCCATGCTGAATCCCATCATCTACAGCTTAA 895
QY 928 GGAATAGGAGGTCTATGCGGCCCTTGGAGGAGGCTCTCTGGG 967
Db 896 GGAACAAGGAAGTAAAGGGTGCACCTGAGAAGAACTCTGGG 935

RESULT 12

US-09-016-434-1312
; Sequence 1312, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2

QY 35 CTGGAACTACACAGCATGGAGCTCTGGAACTTCACCTTGGGAAGTGGCTTCATTTGGT 94
Db 478 CAGGTACAAACAGAACAGGCATGGATACCAAAGCTCCACACCGGGCTTCCTCTCTCT 537
QY 95 GGGGATTTGAATGACAGTGGGCTCTCTGAAGTCTCTGTGCTCAATTAATCAATCTTATA 154
Db 538 GGGGCTTCTGGAACACCCAGGGCTGGGAAGGACTCTCTGTGGATGTCAATCACTTCTTA 597
QY 155 CTGTGTGGCCCTGTATCAGCAATGGCTTACTGTCTCTGGCTATACCAATGGAAGCCGGCT 214
Db 598 CCTCTTAACCTAGTGGGCAACACATCATCATCTCTGTCTGTGGCTGGACCAAGCT 657
QY 215 CCACATGCCATGACCTCTCTGTGGGAGCTCTCTCTATGAGACCTCTGTTCATCATC 274
Db 658 CCACTCTCCAATGTACTTTTCTCTCTCAACCTCTCTCTCTGTGGACCTCTGTTCACCA 717
QY 275 TGTGCTGACCTCCCAAGCCCTTGGGAGCTTCTGGGAGAGAAACACATCTCTTTGG 334
Db 718 GAGTTGTGTTCCCAAAATGTGGCCAACTCTGGGGCCCAAGAAAGACCATCACTTCT 777
QY 335 AGGCTGTGCCCTTTCAGATGTTCTCTGGCACTGACAAATGGGTGGTCTGAGACCTCTTACT 394
Db 778 GGAGTGTCTGTCCAGATCTTCACTCTCTGTCTCTCTGGGACAACTGAGTGCATCTCAT 837
QY 395 GGCCTTCATGGCCTATGACAGGTATGAGGCAATTTGTCATCTCTGTGACATACATGACCT 454
Db 838 GAAAGTGATGGCTTTTATGCTGCTACGTGGCTGTCTGCCAGCCCTCTCACTATGCCACAT 897
QY 455 CATGAGCTCAAGAGCTGTGGCTCATGTGTGGCCAGCTCTGTGATCTCTGTGATCTTAA 514
Db 898 CATCCACCCCGCTGTGGGAGCTGGCATCTGTGGCTGGGTCAATGGGCTAGTGGG 957
QY 515 TGCCCTTAATATATACCGTGTATACCAATGCACTATCCCTCTGAGGCGCCAGGAGATCAG 574
Db 958 GTGAGTGGTCCAGACACCATCCACCTGTGACCTTCTCTGCCCCGATCGGAGGTGGA 1017
QY 575 GCATCTTCTGTGAGATCCCACTGTGTGAAGTTGGCTGTGCTGATACCTCCAGATA 634
Db 1018 TGATTTTGTGTGAGGTCCAGCTCTAAATTCGACTCTCTCTGTGAAGACACCTCTTACAA 1077
QY 635 TGAGCTCATGGTATATGTGATGGGTGACCTTCTCTGATTCCTCTCTTCTGTCTATCT 694
Db 1078 TGAGATCCAGTGGCTGTGGCCAGTGTCTTCACTTGTGTTGTGCTCTCAGCCCTCATCT 1137
QY 695 GGCTCTCTATACAAATTTACTCACTGTGTCTCCATATGCCATCAAAATGAGGGGAGAA 754
Db 1138 TGTCTCTTACGAGGCCATTTACTTGGGAGTGTCTGAGGATTAATCTCCGCCACACATGGAG 1197
QY 755 GAAAGCCCTTGTCACTGTCTTCCCACTGACTGTGGTTGGGATGTCTTATGGAGCTGC 814
Db 1198 AAAGGCCCTTGGGACCTGTCTCTCCATCTCACTGTGTGTCACCTCTTCTTACAGCTCAGT 1257
QY 815 CACATTCATGTATGCTTCCCACTGCTTCCAGACACACAGACCAACATCATCTC 874
Db 1258 CATGTGTCTACTCCAGCCCAAAATCGTATGCCCAAGGGAGGGGCAAGTCTTCTTGG 1317
QY 875 TGTCTTCTACAAATTTCACTCCAGCCCTGAAATCCACTCATCTACAGCTGAGGAAATA 934
Db 1318 TCTCTTCTATGAGTGGGACTCTTCACTTAACCTCTCGTATACACCTGAGGACAA 1377
QY 935 GGAGTTCATGGGCTTGGAGGCTTCTGGGAAATATA 975
Db 1378 GGAGATTAAGCGAGCTCAGGAGGTACTAGGGAAGGAA 1418

RESULT 14

US-09-546-986A-5

; Sequence 5, Application US/09546986A
; Patent No. 6635741
; GENERAL INFORMATION:
; APPLICANT: Powers, Scott
; APPLICANT: Yang, Jianxin

; APPLICANT: Cutler, Gene
; APPLICANT: Tularik Inc.
; TITLE OF INVENTION: No. 6635741el G-Protein Coupled Receptors
; FILE REFERENCE: 018781-004720US
; CURRENT APPLICATION NUMBER: US/09/546,986A
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 09/524,730
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1351
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (86)..(1108)
; OTHER INFORMATION: human breast cancer amplified G-protein coupled
; OTHER INFORMATION: receptor 3 (BCA-GPCR-3)
US-09-546-986A-5

Query Match 22.0%; Score 222; DB 4; Length 1351;

Best Local Similarity 54.7%; Pred. No. 4e-59;

Matches 441; Conservative 0; Mismatches 365; Indels 0; Gaps 0;

QY 151 TATACCTTGTGGCCCTGATCAGCAATGGCTTACTGTCTCTGGCTATCACCATGGAAGCCC 210
Db 249 TTTACATGGTATCGATCTTGGGCAATGGCATCATCTCTGGTCTCCATACAGATGTC 308
QY 211 GGTCCACATGCCCCATGTACTCTCTGTGGGAGCTCTCTCTCAAGAACCTCTCTGTTC 270
Db 309 ACCTCCACACACATATGTACTTCTTTTGGCAACCTCTCTCTCTGGACATGAGCTTCA 368
QY 271 CATCTGTGCTCACTCCCAAGGCCCTTGGGAGCTTCTGCGCAGAGAAAACCATCTCT 330
Db 369 CCACGAGCATGTGCCACAGCTCTCTGGCTAACCTCTGGGGACACAGAAAACCATAGCT 428
QY 331 TTGAGGAGCTGTGCCCTTTCAGATGTTCTGGCACTGACAAATGGGTGGTGTCTGAGGACCTCC 390
Db 429 ATGAGGGTGTGGTCCAGTCTATATCTCCCATTTGGCTGGGGGCAACCGAGTGTGTCC 488
QY 391 TACTGGCTTTATGGCTATGACAGATATGGGCCATTTGTTCATCTCTGACATACATGA 450
Db 489 TGTGGGCCACATGTCTCTATGACCGCTAGCTGCCATCTGACGGCCACTCCATTACACTG 548
QY 451 CCCTCATGAGCTCAAGAGCTGTGCTCATGTGTGGCCAGCTCTGGATCTCTGGCATCCC 510
Db 549 TCATATGATCCACAGCTTTTGGCTTTGGGCTAGCTTTGGCCCTCTCTGGCTGGGGGTCTGA 608
QY 511 TAAGTCCCTTAATATATACCGTATATACCATGCACTATCCCTTCTGCGAGGGCCAGAGA 570
Db 609 CCACGAGCATGTGGGCTCCACGCTCACCATGCTCTCCATCGCTGTGTGGGAAACAATTGCA 668
QY 571 TCAGGCACTCTCTCTGTGAGATCCCACTCATTTGCTGAAGTTGGCTGTGTGATACCTCCA 630
Db 669 TCAGCACTCTCTTTCGAGATGCCCTCATATATGCAACTGGCTTGTGTGGATACCAAGCC 728
QY 631 GATATGAGCTCATGGTATATATGATGGGTGTGACCTTCTCTGATTCCTCTCTGTCTGCTA 690
Db 729 TCATGAGATGGAGATGTACCTGGCCAGCTTTGTCTTGTGTCTGTCTCTCTGGGCTCA 788
QY 691 TACTGGCTCTTATACAAATTTTACTCACTGTCTCATATGCTCATATGCCATCAATGAGGGGA 750
Db 789 TCTGTGTCTTTAGGCCACATTTGCCCGGCGCTGTGTAAGATCAGGTCAAGCAGAGGGGC 848
QY 751 GGAAGAAAGCCCTTGTCACTGTCTTCCCACTGTCTCTGATTTGGATTTCTTATGGAG 810
Db 849 GGAGAAAGGCATTTCAACACCTGTCTTCCACGCTGTGTGTCTCTGTCTGTCTTACGGGA 908
QY 811 CTGCCACATTCATGTATGTCTTGGCCAGTTTCTTCCACAGACACAGACAGCAACATCA 870
Db 909 GCATCATCTTCAATATCTCCAGCCAGCCCAAGAGCACCTCCCATGAGGAGGGCAAGTTCA 968

Qy	871	TCCTCTGTTTCTACACAATTTGTCTACTCCAGCCCTGAATCCACTCATCTACAGCCTGAGGA	930
Db	969	TAGCTCTGTTTCTACACGGTAGTCACTCTCGGTTGAACCCCACTTAATTACACCCCTGAGGA	1028
Qy	931	ATAAGGAGGTCAATCGCGGGCCCTTGAGG	956
Db	1029	ACACGGAGGTGAAGAGCGCCCTCCGG	1054

RESULT 15

```

US-09-524-730-5
US-09-524-730-5 Application US/09524730
; Sequence 5,
; Patent No. 6638733
; GENERAL INFORMATION:
; APPLICANT: Powers, Scott
; APPLICANT: Yang, Jianxin
; APPLICANT: Cucler, Gene
; APPLICANT: Tularik Inc.
; TITLE OF INVENTION: No. 6638733el G-Protein Coupled Receptors
; FILE REFERENCE: 018781-004710US
; CURRENT APPLICATION NUMBER: US/09/524,730
; CURRENT FILING DATE: 2000-03-14
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 5
; LENGTH: 1351
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (86)..(1108)
; OTHER INFORMATION: human breast cancer amplified G-protein co
; OTHER INFORMATION: receptor 3 (BCA-GPCR-3)
US-09-524-730-5

```

Query Match	22.0%	Score 222;	DB 4;	Length 1351;
Best Local Similarity	54.7%;	Prod. No. 4e-59;		
Matches	441;	Conservative 0;	Mismatches 365;	Indels 0; Gaps 0;
QY	151	TATACTTGTTCGGCCCTGATCAGCAATGGCCTACTGCTCTCGGTATACACCATGGAAGCCC	210	
DB	249	TTTACATGGTATCGATCTTGGCCATGSCATCATCATTTCTGGTCTCCCATACAGATGCG	308	
QY	211	GGCTCCACATGCCCATGPACTCTCTGCTGTGGCAGCTCTCTCATGAGACCTCTCTGTTC	270	
DB	309	ACCTCCACACACCTATGACTCTTTCTTGCCAACTCTCTCTCTGACATGAGCTTCA	368	
QY	271	CATCTGTGCTCACTCCCAAGGCCCTTGGGGACTTCTCGGCAGAGAAACCACTCTCCT	330	
DB	369	CCAGAGCATTTGCCACAGCTCTGGGTAACTCTGGGGACCAAGAAAACCATTAAGCT	428	
QY	331	TTGAGGCTGTGCGCCCTTCAGATGTTCTCTGGCACTGACAATGGGTGGTCTGAGGACCTCC	390	
DB	429	ATGAGGGTGTGTGCTCCAGTTCTATATCTCCATTGGCTGGGGCAACCGAGTGTGTCC	488	
QY	391	TACTGGCCCTTCATGGCCATGACAGGTATGTGGCCATTTGTCACTCTCTGACATACATGA	450	
DB	489	TGCTGGCCACCATGTCTTATGACCGCTACGGTGGCCATCTGCAGGGCACTCCATTACACTG	548	
QY	451	CCCTCATGAGCTCAAGAGCCCTGGCTCATGTGGCCACGCTCTGGATCTCTGGCATCCC	510	
DB	549	TCATTATGATCCACAGCTTTGGCTTGGGCTAGCTTTGGCCCTCTGGGCTGGGGGTCTGA	608	
QY	511	TAAGTGGCCCTAATATATACCGTGTATACCATGCATATCCCTTTGCAAGGGCCCAAGAGA	570	
DB	609	CCACCAGCATGGTGGGCTCCACGCTCACCATGCTCCTACCGTGTGTGGAAACAATTGCA	668	
QY	571	TCAGGCATCTTCTGTGTGAGATCCACACTTGCTGAAAGTTGGCCCTGTGCTGATACCTCCA	630	
DB	669	TCGACCACTCTCTTTTGGCAGATGCCCCCTCATTTATGCAACTGGCTGTGTGGATACCA	728	
QY	631	GATATGAGCTCATGGTATATGTGATGGGTGTGACCTTCTGTATTCCTCTCTCTTGCTGCTA	690	

Qy 1 AGCTGGAGATCTGGAACCTTCCACAGCATGGAGCTCTGGAACCTACACAGCATGGAGCTCT 60

Dh 1 AGCTGGAGATCTGGAACCTTCCACAGCATGGAGCTCTGGAACCTACACAGCATGGAGCTCT 60

RESULT 1

US-09-974-591-13
Sequence 13, Application US/09974591
Publication No. US20030059830A1
GENERAL INFORMATION:
APPLICANT: Alsobrook II, John P
APPLICANT: Burgess, Catherine E
APPLICANT: Grosse, William M
APPLICANT: Lepley, Denise M
APPLICANT: Padigaru, Muralidhara
APPLICANT: Spytek, Kimberly A
TITLE OF INVENTION: No. US20030059830A1
TITLE OF INVENTION: Receptor-like
TITLE OF INVENTION: The Same
FILE REFERENCE: 15966-654 CIP
CURRENT APPLICATION NUMBER: US/09/974591
CURRENT FILING DATE: 2001-10-09
PRIOR APPLICATION NUMBER: 60/245,299
PRIOR FILING DATE: 2000-11-02
NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 13
LENGTH: 1008
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (27) .. (998)
US-09-974-591-13

```

Query Match      100.0%; Score 1008; DB 10; Length 1008;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1008: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

Qy 1 AGCTGGAGATCTGGAACCTTCCACAGCATGGAGCTCTGGAACCTACACAGCATGGAGCTCT 60

Dh 1 AGCTGGAGATCTGGAACCTTCCACAGCATGGAGCTCTGGAACCTACACAGCATGGAGCTCT 60

```
QY 61 GGAACCTTCACTTGGGAAGTGGCTTCAATTTGGTGGGATTTCTGAATGACAGTGGGCTC 120
Db 61 GGAACCTTCACTTGGGAAGTGGCTTCAATTTGGTGGGATTTCTGAATGACAGTGGGCTC 120
QY 121 CTGAACCTGCTCTGTGCTACAAATACAACTTATCTTTGGCCCTGATCAGCAATGGCC 180
Db 121 CTGAACCTGCTCTGTGCTACAAATACAACTTATCTTTGGCCCTGATCAGCAATGGCC 180
QY 181 TACTGCTCTGCTATCAGCATGGAAGCCGGCTCCACATGCTCCATGCTCTCTGCTT 240
Db 181 TACTGCTCTGCTATCAGCATGGAAGCCGGCTCCACATGCTCCATGCTCTCTGCTT 240
QY 241 GGCAGCTCTCTCTCATGAGCTCTCTGTTCACTCTGCTGCTCACTCCCAAGCCCTTGGG 300
Db 241 GGCAGCTCTCTCTCATGAGCTCTCTGTTCACTCTGCTGCTCACTCCCAAGCCCTTGGG 300
QY 301 ACTTTTGGCGAGAGAAAACACCATCTCTTTGGAGGCTGTGGCCCTTTCAGATGTTCTCG 360
Db 301 ACTTTTGGCGAGAGAAAACACCATCTCTTTGGAGGCTGTGGCCCTTTCAGATGTTCTCG 360
QY 361 CACTGCAATGGGTGGTGGCTGAGGCTCTCTACTGCGCTTTCAGGCTTATGACAGGTATG 420
Db 361 CACTGCAATGGGTGGTGGCTGAGGCTCTCTACTGCGCTTTCAGGCTTATGACAGGTATG 420
QY 421 TGGCCATTTTCTCTCTGACATACATGACCTCTCATGAGCTCAAGAGCTGTGGCTCA 480
Db 421 TGGCCATTTTCTCTCTGACATACATGACCTCTCATGAGCTCAAGAGCTGTGGCTCA 480
QY 481 TGGTGGCCAGCTCTCTGATCCTGATCCCTTAAGTGGCCCTTAATATATACCGTGTATACCA 540
Db 481 TGGTGGCCAGCTCTCTGATCCTGATCCCTTAAGTGGCCCTTAATATATACCGTGTATACCA 540
QY 541 TGCACTATCCCTTCTGCGAGGCCAGGAGATCAGGCTCTCTCTGAGATCCCACT 600
Db 541 TGCACTATCCCTTCTGCGAGGCCAGGAGATCAGGCTCTCTCTGAGATCCCACT 600
QY 601 TGCTGAAGTTGGCTGTGCTGATACCTTCCAGATATGAGCTCATGGTATATGTGATGGGTG 660
Db 601 TGCTGAAGTTGGCTGTGCTGATACCTTCCAGATATGAGCTCATGGTATATGTGATGGGTG 660
QY 661 TGACCTTCTGATCCCTCTCTGCTGCTATACCTCCAGATATGAGCTCATGGTATATGTGAT 720
Db 661 TGACCTTCTGATCCCTCTCTGCTGCTATACCTCCAGATATGAGCTCATGGTATATGTGAT 720
QY 721 CTGTGCTCATATGCCATCAAAATGAGGGAGGAGAAAGCCCTTGTACCTGCTCTTCCC 780
Db 721 CTGTGCTCATATGCCATCAAAATGAGGGAGGAGAAAGCCCTTGTACCTGCTCTTCCC 780
QY 781 ACCTGACTGTGGTGGGATGTTCTATGGAGCTGCCACATTCATGTATGTCTTGGCCAGTT 840
Db 781 ACCTGACTGTGGTGGGATGTTCTATGGAGCTGCCACATTCATGTATGTCTTGGCCAGTT 840
QY 841 CCTTCCACAGCACCAGACAGAACAAATCATCTCTGTTTCTACAAATGTGCTACCTCCAG 900
Db 841 CCTTCCACAGCACCAGACAGAACAAATCATCTCTGTTTCTACAAATGTGCTACCTCCAG 900
QY 901 CCTGGAATCCACTCATCTACAGCTGAGGAATAGGAGGTGATGCGGCTTTCAGGAGGG 960
Db 901 CCTGGAATCCACTCATCTACAGCTGAGGAATAGGAGGTGATGCGGCTTTCAGGAGGG 960
QY 961 TCTTGGGAAAATACATGCTGCCAGCACCTCCACGCTCTAGGGAAGGA 1008
Db 961 TCTTGGGAAAATACATGCTGCCAGCACCTCCACGCTCTAGGGAAGGA 1008
```

RESULT 2

US-09-974-149-13

; Sequence 13, Application US/09974149
; Publication No. US20030175705A1
; GENERAL INFORMATION:
; APPLICANT: Alsobrook II, John P
; APPLICANT: Burgess, Catherine E

; APPLICANT: Grosse, William M
; APPLICANT: Lepley, Denise M
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Bader, Joel S
; APPLICANT: Bansal, Aruna
; TITLE OF INVENTION: Methods of Use for No. US20030175705A1:el Single Nucleotide
; TITLE OF INVENTION: Polymorphisms of Olfactory Receptor-like Polypeptides
; TITLE OF INVENTION: and Nucleic Acids Encoding the Same
; FILE REFERENCE: 15966-654UB
; CURRENT APPLICATION NUMBER: US/09/974,149
; CURRENT FILING DATE: 2002-05-20
; PRIOR APPLICATION NUMBER: 60/323,755
; PRIOR FILING DATE: 2001-09-20
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 13
; LENGTH: 1008
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (27)..(998)
US-09-974-149-13

Query Match 100.0%; Score 1008; DB 10; Length 1008;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1008; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 AGCTGGAGATCTCGAACTTCCACAGCATGGAGCTCTGGAACCTACACAGCATGGAGCTCT 60
Db 1 AGCTGGAGATCTCGAACTTCCACAGCATGGAGCTCTGGAACCTACACAGCATGGAGCTCT 60
QY 61 GGAACCTTCACTTGGGAAGTGGCTTCAATTTGGTGGGATTTCTGAATGACAGTGGGCTC 120
Db 61 GGAACCTTCACTTGGGAAGTGGCTTCAATTTGGTGGGATTTCTGAATGACAGTGGGCTC 120
QY 121 CTGAACCTGCTCTGCTGCTACAAATACAACTTATCTTTGGCCCTGATCAGCAATGGCC 180
Db 121 CTGAACCTGCTCTGCTGCTACAAATACAACTTATCTTTGGCCCTGATCAGCAATGGCC 180
QY 181 TACTGCTCTCTGCTATCAGCATGGAAGCCGGCTCCACATGCTCCATGCTCTCTGCTT 240
Db 181 TACTGCTCTCTGCTATCAGCATGGAAGCCGGCTCCACATGCTCCATGCTCTCTGCTT 240
QY 241 GGCAGCTCTCTCTCATGAGCTCTCTGTTCACTCTGCTGCTCACTCCCAAGCCCTTGGG 300
Db 241 GGCAGCTCTCTCTCATGAGCTCTCTGTTCACTCTGCTGCTCACTCCCAAGCCCTTGGG 300
QY 301 ACTTTTGGCGAGAGAAAACACCATCTCTTTGGAGGCTGTGGCCCTTTCAGATGTTCTCG 360
Db 301 ACTTTTGGCGAGAGAAAACACCATCTCTTTGGAGGCTGTGGCCCTTTCAGATGTTCTCG 360
QY 361 CACTGCAATGGGTGGTGGCTGAGGACCTCTCTCTGCGCTTTCAGGCTTATGACAGGTATG 420
Db 361 CACTGCAATGGGTGGTGGCTGAGGACCTCTCTCTGCGCTTTCAGGCTTATGACAGGTATG 420
QY 421 TGGCCATTTTCTCTCTGACATACATGACCTCTCATGAGCTCAAGAGCTGTGGCTCA 480
Db 421 TGGCCATTTTCTCTCTGACATACATGACCTCTCATGAGCTCAAGAGCTGTGGCTCA 480
QY 481 TGGTGGCCAGCTCTCTGATCCTGATCCCTTAAGTGGCCCTTAATATATACCGTGTATACCA 540
Db 481 TGGTGGCCAGCTCTCTGATCCTGATCCCTTAAGTGGCCCTTAATATATACCGTGTATACCA 540
QY 541 TGCACTATCCCTTCTGCGAGGCCAGGAGATCAGGCTCTCTCTGAGATCCCACT 600
Db 541 TGCACTATCCCTTCTGCGAGGCCAGGAGATCAGGCTCTCTCTGAGATCCCACT 600
QY 601 TGCTGAAGTTGGCTGTGCTGATACCTTCCAGATATGAGCTCATGGTATATGTGATGGGTG 660
Db 601 TGCTGAAGTTGGCTGTGCTGATACCTTCCAGATATGAGCTCATGGTATATGTGATGGGTG 660
```

QY 661 TGACCTTCTGATCCCTCTCTGCTGTATCTACTAGGCTCTCTATACACAAATTTACTCA 720
DB |||||
QY 661 TGACCTTCTGATCCCTCTCTGCTGTATCTACTAGGCTCTCTATACACAAATTTACTCA 720
DB |||||
QY 721 CTGTGCTCCATATGCCATCAATAGAGGGAGGAGAAAGCCCTTGTCTACCTGCTCTTCCC 780
DB |||||
QY 721 CTGTGCTCCATATGCCATCAATAGAGGGAGGAGAAAGCCCTTGTCTACCTGCTCTTCCC 780
DB |||||
QY 781 ACCTGACTGTGGTGGGATGTTCTATGAGCTGCCACATTTATGATGTTCTGCCCAGTT 840
DB |||||
QY 781 ACCTGACTGTGGTGGGATGTTCTATGAGCTGCCACATTTATGATGTTCTGCCCAGTT 840
DB |||||
QY 841 CCTTCCACAGACACAGCAAGCAACATCATCTCTGTTTTTCTACACAATTTGTCACCTCCAG 900
DB |||||
QY 841 CCTTCCACAGACACAGCAAGCAACATCATCTCTGTTTTTCTACACAATTTGTCACCTCCAG 900
DB |||||
QY 901 CCCTGAATCCACTCATCTACAGCTGAGGAATAGAGGCTCATGCGGCTTTGAGGAGGG 960
DB |||||
QY 901 CCCTGAATCCACTCATCTACAGCTGAGGAATAGAGGCTCATGCGGCTTTGAGGAGGG 960
DB |||||
QY 961 TCCTGGGAAATACATGCTGCCAGCACACTCCAGCTCTAGGGAAGGA 1008
DB |||||
QY 961 TCCTGGGAAATACATGCTGCCAGCACACTCCAGCTCTAGGGAAGGA 1008
DB |||||

RESULT 3

US-09-974-591-11
; Sequence 11, Application US/09974591
; Publication No. US20030059830A1
; GENERAL INFORMATION:
; APPLICANT: Alsobrook II, John P
; APPLICANT: Burgess, Catherine E
; APPLICANT: Grosse, William M
; APPLICANT: Lepley, Denise M
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Spytek, Kimberly A
; TITLE OF INVENTION: Receptor-like Polypeptides and Nucleic Acids Encoding
; TITLE OF INVENTION: the Same
; FILE REFERENCE: 15966-654 CIP
; CURRENT APPLICATION NUMBER: US/09/974,591
; CURRENT FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/245,292
; PRIOR FILING DATE: 2000-11-02
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 1008
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (27)..(998)
US-09-974-591-11

Query Match 99.8%; Score 1006.4; DB 10; Length 1008;

Best Local Similarity 99.9%; Pred. No. 0;
Matches 1007; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGCTGAGATCTGGAACCTTCCACAGCATGGAGCTGTGGAACCTACCACAGCATGGAGCTCT 60
DB 1 AGCTGAGATCTGGAACCTTCCACAGCATGGAGCTGTGGAACCTACCACAGCATGGAGCTCT 60
QY 61 GGAATCTACCTTGGGAAGTGCTTCATTTTGGTGGGATTCGAATGACATGGGTCTC 120
DB 61 GGAATCTACCTTGGGAAGTGCTTCATTTTGGTGGGATTCGAATGACATGGGTCTC 120
QY 121 CTGAATGCTCTGTGTCTAATACATCCTATCTTGTGGCTCTGTCGATGACCAATGGCC 180
DB 121 CTGAATGCTCTGTGTCTAATACATCCTATCTTGTGGCTCTGTCGATGACCAATGGCC 180
QY 181 TACTGCTCTGCTGATCACCATGGAAGCCGGCTCCACATGCCACTGATCTCTGCTTG 240
DB |||||

RESULT 4

US-09-777-789-10
; Sequence 10, Application US/09777789
; Publication No. US20030087815A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru et al.
; TITLE OF INVENTION: NOVEL POLYPEPTIDES AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 15966-654
; CURRENT APPLICATION NUMBER: US/09/777,789
; CURRENT FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: 60/180,646
; PRIOR FILING DATE: 2000-02-07
; NUMBER OF SEQ ID NOS: 101
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 1008
; TYPE: DNA
; ORGANISM: Homo sapiens

DB 181 TACTGCTCTGGCTATACCATGGAAGCCCGCTCCACATGCCCATGTACCTCTGCTTG 240
QY 241 GGGAGCTCTCTCTCATGGACCTCTGTTTCACTCTGTGCTGCTCACTCCCAAGGCCCTTGGG 300
DB 241 GGGAGCTCTCTCTCATGGACCTCTGTTTCACTCTGTGCTGCTCACTCCCAAGGCCCTTGGG 300
QY 301 ACTTCTGCGCAGAGAAAACACCATCTCTTGTGAGGCTGTGCCCTTCAGATGTTCTCTGG 360
DB 301 ACTTCTGCGCAGAGAAAACACCATCTCTTGTGAGGCTGTGCCCTTCAGATGTTCTCTGG 360
QY 361 CACTGACAATGGTGTGCTGAGGACCTCTTACTGGCCCTTCATGGCCCTATGACAGGTATG 420
DB 361 CACTGACAATGGTGTGCTGAGGACCTCTTACTGGCCCTTCATGGCCCTATGACAGGTATG 420
QY 421 TGGCCATTTGTCATCTCTGACATACATGACCCCTCATGAGCTCAAGAGCCCTGCTGGCTCA 480
DB 421 TGGCCATTTGTCATCTCTGACATACATGACCCCTCATGAGCTCAAGAGCCCTGCTGGCTCA 480
QY 481 TGGTGGCCACGTCCTGGATCCTGGCATCCCTAAAGTGGCCCTAAATATATACCGTGTATACCA 540
DB 481 TGGTGGCCACGTCCTGGATCCTGGCATCCCTAAAGTGGCCCTAAATATATACCGTGTATACCA 540
QY 541 TGCATATCCCTTCTGACAGGCCCCAGGAGATCAGGCATCTTCTGTGAGATPCCCACT 600
DB 541 TGCATATCCCTTCTGACAGGCCCCAGGAGATCAGGCATCTTCTGTGAGATPCCCACT 600
QY 601 TGCTGAAGTTGGCTGTGCTGATACCTCCAGATATGAGCTCATGTTATATGATGGGTG 660
DB 601 TGCTGAAGTTGGCTGTGCTGATACCTCCAGATATGAGCTCATGTTATATGATGGGTG 660
QY 661 TGACCTTCTGATTCCTCTCTTGTGCTATATCTGCTGCTTCTATACACAAATTTCTACTCA 720
DB 661 TGACCTTCTGATTCCTCTCTTGTGCTATATCTGCTGCTTCTATACACAAATTTCTACTCA 720
QY 721 CTGTGCTCCATATGCCATCAATAGAGGGAGGAGAAAGCCCTTGTCTACCTGCTCTTCCC 780
DB 721 CTGTGCTCCATATGCCATCAATAGAGGGAGGAGAAAGCCCTTGTCTACCTGCTCTTCCC 780
QY 781 ACCTGACTGTGGTGGGATGTTCTATGAGCTGCCACATTCATGTTCTGTTGCCAGTT 840
DB 781 ACCTGACTGTGGTGGGATGTTCTATGAGCTGCCACATTCATGTTCTGTTGCCAGTT 840
QY 841 CCTTCCACAGCACAGCAAGCAACATCATCTCTGTTTTTCTACACAATTTGTCACCTCCAG 900
DB 841 CCTTCCACAGCACAGCAAGCAACATCATCTCTGTTTTTCTACACAATTTGTCACCTCCAG 900
QY 901 CCCTGAATCCACTCATCTACAGCTGAGGAATAGAGGCTCATGCGGCTTTGAGGAGGG 960
DB 901 CCCTGAATCCACTCATCTACAGCTGAGGAATAGAGGCTCATGCGGCTTTGAGGAGGG 960
QY 961 TCCTGGGAAATACATGCTGCCAGCACACTCCAGCTCTAGGGAAGGA 1008
DB 961 TCCTGGGAAATACATGCTGCCAGCACACTCCAGCTCTAGGGAAGGA 1008
DB |||||

US-09-777-789-10

```
Query Match          99.8%; Score 1006.4; DB 10; Length 1008;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1007; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGCTGGAGATCTGGAATCTCCACAGCATGAGCTCTGGAATCCACAGCATGAGCTCT 60
DB 1 AGCTGGAGATCTGGAATCTCCACAGCATGAGCTCTGGAATCCACAGCATGAGCTCT 60

QY 61 GGAATTTCACTTGGGAAGTGGCTTCAATTTGGTGGGATTTGAATGACAGTGGGTCTC 120
DB 61 GGAATTTCACTTGGGAAGTGGCTTCAATTTGGTGGGATTTGAATGACAGTGGGTCTC 120

QY 121 CTGAATGCTCTGTGCTACAAATACAACTTATCTGTTGGCCCTGATCAGCAATGGCC 180
DB 121 CTGAATGCTCTGTGCTACAAATACAACTTATCTGTTGGCCCTGATCAGCAATGGCC 180

QY 181 TACTGCTCTGCTATCACCATGGAAGCCGGCTCCACATGCCCATGTACTCTCTGCTTG 240
DB 181 TACTGCTCTGCTATCACCATGGAAGCCGGCTCCACATGCCCATGTACTCTCTGCTTG 240

QY 241 GGCAGCTCTCTCATGAGACCTCTGTTTCACTCTGTGCTGCTCTCCAGAGCCCTTGGCG 300
DB 241 GGCAGCTCTCTCATGAGACCTCTGTTTCACTCTGTGCTGCTCTCCAGAGCCCTTGGCG 300

QY 301 ACTTTCTGCGCAGAGAAACACCATCTCTCTTTGGAGGCTGTGCCCTTCAGATGTTCTG 360
DB 301 ACTTTCTGCGCAGAGAAACACCATCTCTCTTTGGAGGCTGTGCCCTTCAGATGTTCTG 360

QY 361 CACTGCAATGGGTGGTGTGAGACCTCTACTTGGCCCTTCATGGCCCTATGACAGGTATG 420
DB 361 CACTGCAATGGGTGGTGTGAGACCTCTACTTGGCCCTTCATGGCCCTATGACAGGTATG 420

QY 421 TGGCCATTTGTCATCTCTGACATACATGACCTCTGAGCTCAAGAGCCCTGCTGGCTCA 480
DB 421 TGGCCATTTGTCATCTCTGACATACATGACCTCTGAGCTCAAGAGCCCTGCTGGCTCA 480

QY 481 TGTGTGGCCAGTCTCTGATCCTGGCATCCCTAAGTGGCCCTAAATATATACCGTGTATACCA 540
DB 481 TGTGTGGCCAGTCTCTGATCCTGGCATCCCTAAGTGGCCCTAAATATATACCGTGTATACCA 540

QY 541 TGCACATATCCCTTCTGAGGCGCCAGGAGATCAGGCATCTTCTCTGTGAGATCCCACT 600
DB 541 TGCACATATCCCTTCTGAGGCGCCAGGAGATCAGGCATCTTCTCTGTGAGATCCCACT 600

QY 601 TGTGTAAGTTGGCTGTGCTGATACCTCCAGATATGAGCTCATGTTATGTTGATGGGTG 660
DB 601 TGTGTAAGTTGGCTGTGCTGATACCTCCAGATATGAGCTCATGTTATGTTGATGGGTG 660

QY 661 TGACCTTCTGATTTCCCTCTCTTGGCTGATACCTGCGCTCCTATACACAAATTTCTACTCA 720
DB 661 TGACCTTCTGATTTCCCTCTCTTGGCTGATACCTGCGCTCCTATACACAAATTTCTACTCA 720

QY 721 CTGTGCTCCATATGCCATCAAATGAGGGAGGAGAAAGCCCTTGTACACCTGCTCTTCCC 780
DB 721 CTGTGCTCCATATGCCATCAAATGAGGGAGGAGAAAGCCCTTGTACACCTGCTCTTCCC 780

QY 781 ACCTGACTGTGTTGGATGTTCTATGAGAGCTGCCACATTCATGTTATGTTTCCCAAGTT 840
DB 781 ACCTGACTGTGTTGGATGTTCTATGAGAGCTGCCACATTCATGTTATGTTTCCCAAGTT 840

QY 841 CCTTCCACAGCACCAGACAGAAACATCATCTCTGTTTCTACAAATTTGCTCACTCCAG 900
DB 841 CCTTCCACAGCACCAGACAGAAACATCATCTCTGTTTCTACAAATTTGCTCACTCCAG 900

QY 901 CCTTGAATCCACTCATCTA CAGCTGAGGAATAGGAGGTCTATGCGGCTTCTGAGAGGG 960
DB 901 CCTTGAATCCACTCATCTA CAGCTGAGGAATAGGAGGTCTATGCGGCTTCTGAGAGGG 960

QY 961 TCCCTGGGAATATACCTGCGCAGCACCTCCAGCTCTAGGGAAGGA 1008
DB 961 TCCCTGGGAATATACCTGCGCAGCACCTCCAGCTCTAGGGAAGGA 1008
```

```
RESULT 5
US-09-974-149-11
; Sequence 11, Application US/09974149
; Publication No. US20030175705A1
; GENERAL INFORMATION:
; APPLICANT: Alsbrook II, John P
; APPLICANT: Burgess, Catherine E
; APPLICANT: Grosse, William M
; APPLICANT: Lepley, Denise M
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Spyttek, Kimberly A
; APPLICANT: Bader, Joel S
; APPLICANT: Bansal, Aruna
; TITLE OF INVENTION: Methods of Use for No. US20030175705A1el Single Nucleotide
; TITLE OF INVENTION: Polymorphisms of Olfactory Receptor-like Polypeptides
; FILE REFERENCE: 15966-654UB
; CURRENT APPLICATION NUMBER: US/09/974,149
; CURRENT FILING DATE: 2002-05-20
; PRIOR APPLICATION NUMBER: 60/323,755
; PRIOR FILING DATE: 2001-09-20
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 1008
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (27)..(998)
US-09-974-149-11
```

```
Query Match          99.8%; Score 1006.4; DB 10; Length 1008;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1007; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGCTGGAGATCTGGAATCTCCACAGCATGAGCTCTGGAATCCACAGCATGAGCTCT 60
DB 1 AGCTGGAGATCTGGAATCTCCACAGCATGAGCTCTGGAATCCACAGCATGAGCTCT 60

QY 61 GGAATTTCACTTGGGAAGTGGCTTCAATTTGGTGGGATTTCTGAATGACAGTGGGTCTC 120
DB 61 GGAATTTCACTTGGGAAGTGGCTTCAATTTGGTGGGATTTCTGAATGACAGTGGGTCTC 120

QY 121 CTGAATGCTCTGTGCTACAAATACAACTTATCTGTTGGCCCTGATCAGCAATGGCC 180
DB 121 CTGAATGCTCTGTGCTACAAATACAACTTATCTGTTGGCCCTGATCAGCAATGGCC 180

QY 181 TACTGCTCTGCTATCACCATGGAAGCCGGCTCCACATGCCCATGTACTCTCTGCTTG 240
DB 181 TACTGCTCTGCTATCACCATGGAAGCCGGCTCCACATGCCCATGTACTCTCTGCTTG 240

QY 241 GGCAGCTCTCTCTCATGAGACCTCTCTGTTCACTCTGTGCTGCTCTCCAGAGCCCTTGGCG 300
DB 241 GGCAGCTCTCTCTCATGAGACCTCTCTGTTCACTCTGTGCTGCTCTCCAGAGCCCTTGGCG 300

QY 301 ACTTTCTGCGCAGAGAAACACCATCTCTCTTTGGAGGCTGTGCCCTTCAGATGTTCTG 360
DB 301 ACTTTCTGCGCAGAGAAACACCATCTCTCTTTGGAGGCTGTGCCCTTCAGATGTTCTG 360

QY 361 CACTGCAATGGGTGGTGTGAGACCTCTACTTGGCCCTTCATGGCCCTATGACAGGTATG 420
DB 361 CACTGCAATGGGTGGTGTGAGACCTCTACTTGGCCCTTCATGGCCCTATGACAGGTATG 420

QY 421 TGGCCATTTGTCATCTCTGACATACATGACCTCTATGAGCTCAAGAGCCCTGCTGGCTCA 480
DB 421 TGGCCATTTGTCATCTCTGACATACATGACCTCTATGAGCTCAAGAGCCCTGCTGGCTCA 480

QY 481 TGTGTGGCCAGTCTCTGATCCTGGCATCCCTAAGTGGCCCTAAATATATACCGTGTATACCA 540
DB 481 TGTGTGGCCAGTCTCTGATCCTGGCATCCCTAAGTGGCCCTAAATATATACCGTGTATACCA 540
```


QY 541 TGCATATCCCTTCTGAGGCGCCAGAGATCAGGATCTTCTGTGAGATCCACACT 600
Db 541 TGCATATCCCTTCTGAGGCGCCAGAGATCAGGATCTTCTGTGAGATCCACACT 600
QY 601 TGCTGAAGTTGGCTGTGCTGATACCTCCAGATATGAGCTCATGTATATGTGATGGTG 660
Db 601 TGCTGAAGTTGGCTGTGCTGATACCTCCAGATATGAGCTCATGTATATGTGATGGTG 660
QY 661 TGACCTTCTGATTCCTCTCTTGTGCTATPACTGGCTCCATATACACAAATCTACTCA 720
Db 661 TGACCTTCTGATTCCTCTCTTGTGCTATPACTGGCTCCATATACACAAATCTACTCA 720
QY 721 CTGTGCTCCATATGATCAATGAGGGGAGGAGAAAGCCCTGTGCTGCTTCCC 780
Db 721 CTGTGCTCCATATGATCAATGAGGGGAGGAGAAAGCCCTGTGCTGCTTCCC 780
QY 781 ACCTGACTGTGTTGGGATGTTCTATGAGCTGCCACATTCATGTATGTTGCCAGTT 840
Db 781 ACCTGACTGTGTTGGGATGTTCTATGAGCTGCCACATTCATGTATGTTGCCAGTT 840
QY 841 CTTTCCACAGCACCAGACAAGACAATCATCTCTGTTTTCTACAAATGTCATCCAG 900
Db 841 CTTTCCACAGCACCAGACAAGACAATCATCTCTGTTTTCTACAAATGTCATCCAG 900
QY 901 CCCTGAATCCACTCATCTACAGCTGAGGAATAGAGGATCATGCGGCGCTTGAGGAGG 960
Db 901 CCCTGAATCCACTCATCTACAGCTGAGGAATAGAGGATCATGCGGCGCTTGAGGAGG 960
QY 961 TCCTGGGAAATACATGCTGCCAGCACACTCCAGCTCTAGGGAAGGA 1008
Db 961 TCCTGGGAAATACATGCTGCCAGCACACTCCAGCTCTAGGGAAGGA 1008

RESULT 6

US-09-777-789-8
; Sequence 8, Application US/09777789
; Publication No. US20030087815A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru et al.
; TITLE OF INVENTION: NOVEL POLYPEPTIDES AND NUCLEIC ACIDS ENCODING SAME
; CURRENT APPLICATION NUMBER: US/09/777,789
; FILE REFERENCE: 15966-654
; CURRENT FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: 60/180,646
; PRIOR FILING DATE: 2000-02-07
; NUMBER OF SEQ ID NOS: 101
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 1050
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-777-789-8

Query Match 95.5%; Score 962.8; DB 10; Length 1050;
Best Local Similarity 99.8%; Pred. No. 6.5e-308;
Matches 964; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 43 ACCACAGATGAGCTCTGGAACCTTCCCTTGGGAAGTGGCTTCAATTTTGGTGGGATTC 102
Db 54 ACCACAGATGAGCTCTGGAACCTTCCCTTGGGAAGTGGCTTCAATTTTGGTGGGATTC 123
QY 103 TGAATGACAGTGGGTCTCTGAACTGCTGTGCTACAAATTAATTCATATCTGTTGG 162
Db 124 TGAATGACAGTGGGTCTCTGAACTGCTGTGCTACAAATTAATTCATATCTGTTGG 183
QY 163 CCCTGATGAGCAATGGCTCTGCTGCTGCTATACAGTGAAGCCCGCTCCACATGC 222
Db 184 CCCTGATGAGCAATGGCTCTGCTGCTGCTATACAGTGAAGCCCGCTCCACATGC 243
QY 223 CCATGTACCTCTGCTTGGGAGCTCTCTCATGAGACCTCTGTTTCATCTGTGTCA 282
Db 244 CCATGTACCTCTGCTTGGGAGCTCTCTCATGAGACCTCTGTTTCATCTGTGTCA 303

QY 283 CTCCAGGCGCTTGGGACTTTCTGCGCAGAGAAAACACCATCTCTTTTGGAGCTGTG 342
Db 304 CTCCAGGCGCTTGGGACTTTCTGCGCAGAGAAAACACCATCTCTTTTGGAGCTGTG 363
QY 343 CCCTTCAGATGTTCTCTGCGCACTGACAAATGGTGGTGTGAGGACCTCTACTTGGCCTTCA 402
Db 364 CCCTTCAGATGTTCTCTGCGCACTGACAAATGGTGGTGTGAGGACCTCTACTTGGCCTTCA 423
QY 403 TGGCTATGACAGGTATGTGGCCATTTGTCTCTGACATATGATGACCCCTCATGAGCT 462
Db 424 TGGCTATGACAGGTATGTGGCCATTTGTCTCTGACATATGATGACCCCTCATGAGCT 483
QY 463 CAAGAGCTGTGCTCATGCTGCGCCACGCTCTGCGATCCCTGCGATCCCTTAAGTGCCTTAA 522
Db 484 CAAGAGCTGTGCTCATGCTGCGCCACGCTCTGCGATCCCTGCGATCCCTTAAGTGCCTTAA 543
QY 523 TATATACCGTGTATACCATGCACTATCCCTTCTGAGGCGCCAGAGATCAGGATCTTC 582
Db 544 TATATACCGTGTATACCATGCACTATCCCTTCTGAGGCGCCAGAGATCAGGATCTTC 603
QY 583 TCTGTGAGATCCCACTGCTGCTGAAGTTGGCTGTGCTGATACCTCCAGATATGAGCTCA 642
Db 604 TCTGTGAGATCCCACTGCTGCTGAAGTTGGCTGTGCTGATACCTCCAGATATGAGCTCA 663
QY 643 TGGTATATGTGATGGGTGTGACCTTCTGCTGATTCCTCTCTTGTGCTATATCTGCGCTCCT 702
Db 664 TGGTATATGTGATGGGTGTGACCTTCTGCTGATTCCTCTCTTGTGCTATATCTGCGCTCCT 723
QY 703 ATACAAATTTCTACTCTGCTGCTCCATATGCCATCAATGAGGGGAGGAAAGGCC 762
Db 724 ATACAAATTTCTACTCTGCTGCTCCATATGCCATCAATGAGGGGAGGAAAGGCC 783
QY 763 TTGTCACTGCTCTTCCACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 822
Db 784 TTGTCACTGCTCTTCCACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 843
QY 823 TGTATGCTTGGCCAGTTCTTCCACAGCACAGACAGACAAACATCATCTCTGTTTCT 882
Db 844 TGTATGCTTGGCCAGTTCTTCCACAGCACAGACAGACAAACATCATCTCTGTTTCT 903
QY 883 ACACAAATTTCTACTCTGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 942
Db 904 ACACAAATTTCTACTCTGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 963
QY 943 TGGGCGCTTGGAGGAGGCTGCTGAGGAAATATGCTGCGAGCACACTCCAGCTCTAGG 1002
Db 964 TGGGCGCTTGGAGGAGGCTGCTGAGGAAATATGCTGCGAGCACACTCCAGCTCTAGG 1023
QY 1003 GAAGGA 1008
Db 1024 GAAGGA 1029

RESULT 7

US-10-017-161-309
; Sequence 309, Application US/10017161
; Publication No. US20030143668A1
; GENERAL INFORMATION:
; APPLICANT: SUWA, MAKIKO
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ABURATANI, HIROYUKI
; TITLE OF INVENTION: NOVEL G PROTEIN- COUPLED RECEPTORS
; FILE REFERENCE: 084335/0152
; CURRENT APPLICATION NUMBER: US/10/017,161
; CURRENT FILING DATE: 2002-12-18
; PRIOR APPLICATION NUMBER: JP 2001/246789
; PRIOR FILING DATE: 2001-06-18
; NUMBER OF SEQ ID NOS: 2430
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 309
; LENGTH: 1351

; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: source
; LOCATION: (1)..(1351)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (201)..(1151)
US-10-017-161-309

Query Match 95.5%; Score 962.8; DB 15; Length 1351;

Best Local Similarity 99.8%; Pred. No. 7.3e-308;
Matches 964; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```
QY 43 ACCACAGCTGGAGCTCTGAACTTACACCTTGGGAAGTGGCTTCATTTTGGTGGGATTC 102
Db 193 ACCACAGCTGGAGCTCTGAACTTACACCTTGGGAAGTGGCTTCATTTTGGTGGGATTC 252
QY 103 TGAATGACAGTGGGTCTCTGAACTGCTGTGTGCTACAATAAATCTATCTTGTGG 162
Db 253 TGAATGACAGTGGGTCTCTGAACTGCTGTGTGCTACAATAAATCTATCTTGTGG 312
QY 163 CCTGTATCAGCAATGGCTTACTGCTCTGCTGCTATCACCATGGAAGCCGGCTCCATGTC 222
Db 313 CCTGTATCAGCAATGGCTTACTGCTCTGCTGCTATCACCATGGAAGCCGGCTCCATGTC 372
QY 223 CCATGTACCTCTCTGCTTGGGAGCTCTCTCTATGAGACCTCTCTTTCACATCTGTGCTCA 282
Db 373 CCATGTACCTCTCTGCTTGGGAGCTCTCTCTATGAGACCTCTCTTTCACATCTGTGCTCA 432
QY 283 CTCCTAAGGCCCTTGGGAGCTTCTGCGCAGAAACACCATCTCTTTGGAGGCTGTG 342
Db 433 CTCCTAAGGCCCTTGGGAGCTTCTGCGCAGAAACACCATCTCTTTGGAGGCTGTG 492
QY 343 CCTCTCAGATGTTCTTGGCACTGACCAATGGTGTGTGCTGAGGACCTCTTCTGAGGCTTCA 402
Db 493 CCTCTCAGATGTTCTTGGCACTGACCAATGGTGTGTGCTGAGGACCTCTTCTGAGGCTTCA 552
QY 403 TGGCCTATGACAGGATGTTGGCCATTTGTCTATGATGATGATGATGATGATGATGATGATG 462
Db 553 TGGCCTATGACAGGATGTTGGCCATTTGTCTATGATGATGATGATGATGATGATGATGATG 612
QY 463 CAAGAGCCTGCTGGCTATGTTGGTGGCCAGCTCTGATGATGATGATGATGATGATGATGATG 522
Db 613 CAAGAGCCTGCTGGCTATGTTGGTGGCCAGCTCTGATGATGATGATGATGATGATGATGATG 672
QY 523 TATATACCGTGTATACCATGCTATCTCTTCTGAGGCGCCAGGAGATCAGGCACTTTC 582
Db 673 TATATACCGTGTATACCATGCTATCTCTTCTGAGGCGCCAGGAGATCAGGCACTTTC 732
QY 583 TCTGTGAGATCCACACTTGTGAGTGGCCCTGCTGATATCCTCCAGATATGAGCTCA 642
Db 733 TCTGTGAGATCCACACTTGTGAGTGGCCCTGCTGATATCCTCCAGATATGAGCTCA 792
QY 643 TGGTATATGATGGGTGTGACCTTCTGATTCCTCTCTTGTGCTATCTGAGGCTCTCT 702
Db 793 TGGTATATGATGGGTGTGACCTTCTGATTCCTCTCTTGTGCTATCTGAGGCTCTCT 852
QY 703 ATACACAAATTTACTCACTGTGCTCCATATGCTCAATATGAGGGGAGGAGAAAGCCC 762
Db 853 ATACACAAATTTACTCACTGTGCTCCATATGCTCAATATGAGGGGAGGAGAAAGCCC 912
QY 763 TTGTACCTGCTCTTCCCACTGCTGTGGTGGGATGTTCTATGAGGCTGCGACATTTCA 822
Db 913 TTGTACCTGCTCTTCCCACTGCTGTGGTGGGATGTTCTATGAGGCTGCGACATTTCA 972
QY 823 TGTATGCTTGTCCAGTCTCTTCCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC 882
Db 973 TGTATGCTTGTCCAGTCTCTTCCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC 1032
QY 883 ACACAAATTTGCTCTCCAGCCTGAAATCCACTCATCTACAGCCTGAGGAATAGAGGCTCA 942
Db 1033 ACACAAATTTGCTCTCCAGCCTGAAATCCACTCATCTACAGCCTGAGGAATAGAGGCTCA 1092
```

```
QY 943 TGGGGCTTTGAGAGGGTCTCTGGGAAATATACATGCTGCAGACACTCCACGCTCTAGG 1002
Db 1093 TGGGGCTTTGAGAGGGTCTCTGGGAAATATACATGCTGCAGACACTCCACGCTCTAGG 1152
QY 1003 GAAGGA 1008
Db 1153 GAAGGA 1158
```

RESULT 8

```
US-10-292-798-275
; Sequence 275, Application US/10292798
; Publication No. US2003023583A1
; GENERAL INFORMATION:
; APPLICANT: SUWA, MAKIKO
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ABURATANI, HIROYUKI
; TITLE OF INVENTION: GUANOSINE TRIPHOSPHATE-BINDING PROTEIN COUPLED RECEPTORS
; FILE REFERENCE: 084335/166
; CURRENT APPLICATION NUMBER: US/10/292,798
; PRIOR FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: 10/017,161
; PRIOR FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: JP 2001-246789
; PRIOR FILING DATE: 2001-06-18
; NUMBER OF SEQ ID NOS: 2070
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 275
; LENGTH: 1351
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; LOCATION: source
; FEATURE:
; LOCATION: (1)..(1351)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (201)..(1151)
US-10-292-798-275
```

Query Match 95.5%; Score 962.8; DB 16; Length 1351;
Best Local Similarity 99.8%; Pred. No. 7.3e-308;
Matches 964; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```
QY 43 ACCACAGCTGGAGCTCTGGAAGTTCACCTTGGGAAGTGGCTTCATTTTGGTGGGATTC 102
Db 193 ACCACAGCTGGAGCTCTGGAAGTTCACCTTGGGAAGTGGCTTCATTTTGGTGGGATTC 252
QY 103 TGAATGACAGTGGGTCTCTGTAACCTCTCTGTGCTACAATTACAATCTTACTTCTGTGG 162
Db 253 TGAATGACAGTGGGTCTCTGTAACCTCTCTGTGCTACAATTACAATCTTACTTCTGTGG 312
QY 163 CCTGTATCAGCAATGGCTTACTGCTCTCTGCTATCACCATGGAAGCCGGCTCCACATGC 222
Db 313 CCTGTATCAGCAATGGCTTACTGCTCTCTGCTATCACCATGGAAGCCGGCTCCACATGC 372
QY 223 CCATGTACCTCTGCTTGGGAGCTCTCTCTCATGAGACCTCTGTTCATCTGTCTCA 282
Db 373 CCATGTACCTCTGCTTGGGAGCTCTCTCTCATGAGACCTCTGTTCATCTGTTCATCA 432
QY 283 CTCCTAAGGCCCTTGGGAGCTTCTGCGCAGAGAAACACCATCTCTCTTTGGAGGCTGTG 342
Db 433 CTCCTAAGGCCCTTGGGAGCTTCTGCGCAGAGAAACACCATCTCTTTGGAGGCTGTG 492
QY 343 CCTCTCAGATGTTCTGGAAGTGAACAATGGTGGTGTGCTGAGGACCTCTTCTGAGGCTTCA 402
Db 493 CCTCTCAGATGTTCTGGAAGTGAACAATGGTGGTGTGCTGAGGACCTCTTCTGAGGCTTCA 552
QY 403 TGGCCTATGACAGGATGTTGGCCATTTGTCTATGATGATGATGATGATGATGATGATGATG 462
Db 553 TGGCCTATGACAGGATGTTGGCCATTTGTCTATGATGATGATGATGATGATGATGATGATG 612
```

QY 463 CAAGAGCCTGCTGGCTCATGTGGCCAGCTCCTGGATCCTGGCATCCTTAAGTGCCTAA 522
Db 613 CAAGAGCCTGCTGGCTCATGTGGCCAGCTCCTGGATCCTGGCATCCTTAAGTGCCTAA 672
QY 523 TATATACCGTGTATACCATGACATATCCCTTCTGCGAGGCCAGGAGATCAGGATCTTC 582
Db 673 TATATACCGTGTATACCATGACATATCCCTTCTGCGAGGCCAGGAGATCAGGATCTTC 732
QY 583 TCTGTGAGATCCCAACATTTGCTGAAGTTGGCTGTGTGATACCTCCAGATATGAGCTCA 642
Db 733 TCTGTGAGATCCCAACATTTGCTGAAGTTGGCTGTGTGATACCTCCAGATATGAGCTCA 792
QY 643 TGGTATATGATGGTGTGACCTTCCGATTCCTCTCTTGGCTGTATATGAGCTCCT 702
Db 793 TGGTATATGATGGTGTGACCTTCCGATTCCTCTCTTGGCTGTATATGAGCTCCT 852
QY 703 ATACACAAATTTCTACTCTGCTGCCATATGCCATCAATGAGGGGAGGAAGAGCCC 762
Db 853 ATACACAAATTTCTACTCTGCTGCCATATGCCATCAATGAGGGGAGGAAGAGCCC 912
QY 763 TTGTCACTGCTCTTCCACCTGACTGTGTGGATGTTCTATGAGCTGCCACATTC 822
Db 913 TTGTCACTGCTCTTCCACCTGACTGTGTGGATGTTCTATGAGCTGCCACATTC 972
QY 823 TGTATGCTTCCCGAGTTCTTCCACAGCACCAGACAGAACATCATCTCTGTTTCT 882
Db 973 TGTATGCTTCCCGAGTTCTTCCACAGCACCAGACAGAACATCATCTCTGTTTCT 1032
QY 883 ACACAAATTTGCTCACTCCAGCCTGATCCACTCATCTACAGCTGAGGAATAAGAGGTCA 942
Db 1033 ACACAAATTTGCTCACTCCAGCCTGATCCACTCATCTACAGCTGAGGAATAAGAGGTCA 1092
QY 943 TCGGGGCTTGAGGAGGTCTCGGAAATACATGCTGCCAGCACACTCCAGCTCTAGG 1002
Db 1093 TCGGGGCTTGAGGAGGTCTCGGAAATACATGCTGCCAGCACACTCCAGCTCTAGG 1152
QY * 1003 GAAGGA 1008
Db 1153 GAAGGA 1158

RESULT 9
US-09-886-055-198
; Sequence 198, Application US/09886055
; Patent No. US2002013273A1
; GENERAL INFORMATION:
; APPLICANT: STRYER, LUBERT
; APPLICANT: ZOZULYA, SERGEY
; TITLE OF INVENTION: RECEPTOR FINGERPRINTING, SENSORY PERCEPTION, AND
; TITLE OF INVENTION: BIOSENSORS OF CHEMICAL SENSANTS
; FILE REFERENCE: 078003-0271150
; CURRENT APPLICATION NUMBER: US/09/886, 055
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: 60/213, 812
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 522
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 198
; LENGTH: 951
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-886-055-198

Query Match 94.0%; Score 947.8; DB 9; Length 951;
Best Local Similarity 99.8%; Pred. No. 5.8e-303;
Matches 949; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 51 ATGGAGCTCTGGAATTCACCTTGGGAAGTGGCTTCATTTGGTGGGATTCATGATGAC 110
Db 1 ATGGAGCTCTGGAATTCACCTTGGGAAGTGGCTTCATTTGGTGGGATTCATGATGAC 60
QY 111 AGTGGGTCTCTGAACTGCTGTGCTACAAATTAACAATCCTATATCTTGTGGCCCTGATC 170

Db 61 AGTGGGTCTCTGAACTGCTGTGCTACAAATTAACAATCCTATATCTTGTGGCCCTGATC 120
QY 171 AGCAATGGCCTTACTGCTCCTGGCTATACCAATGAAGAGCCCGGCTCCACATGCCCATGATC 230
Db 121 AGCAATGGCCTTACTGCTCCTGGCTATACCAATGAAGAGCCCGGCTCCACATGCCCATGATC 180
QY 231 CTCCTGCTTGGGAGCTCTCTCATGGACCTCCTGTTTACATCTGTGCTCACTCCCAAG 290
Db 181 CTCCTGCTTGGGAGCTCTCTCTCATGGACCTCCTGTTTACATCTGTGCTCACTCCCAAG 240
QY 291 GCCCTTGGGAGCTTCTTGGCAGAGAAAACCAATCTCTCTTGGAGGCTGTGCCCTTCAG 350
Db 241 GCCCTTGGGAGCTTCTTGGCAGAGAAAACCAATCTCTCTTGGAGGCTGTGCCCTTCAG 300
QY 351 ATGTTCTGGCAGCTAGCAAAATGGGTGGTGTGAGACCTCTCTACTGGCCTTATGAGCCTAT 410
Db 301 ATGTTCTGGCAGCTAGCAAAATGGGTGGTGTGAGACCTCTCTACTGGCCTTATGAGCCTAT 360
QY 411 GACAGGTATGTGGCCTTGTTCATCCTCTGACATACATGACCCCTCATGAGCTCAAGAGCC 470
Db 361 GACAGGTATGTGGCCTTGTTCATCCTCTGACATACATGACCCCTCATGAGCTCAAGAGCC 420
QY 471 TGCTGGCTCATGTGGCAGCCTCTCTGGATCCTGGCATCCCTTAAGTGCCTTAATATATACC 530
Db 421 TGCTGGCTCATGTGGCAGCCTCTCTGGATCCTGGCATCCCTTAAGTGCCTTAATATATACC 480
QY 531 GTGTATACCATGACTATCTCTCTTCTGAGGCCCCAGAGATCAGGCACTCTCTCTGTGAG 590
Db 481 GTGTATACCATGACTATCTCTCTTCTGAGGCCCCAGGAGATCAGGCACTCTCTCTGTGAG 540
QY 591 ATCCACACATGCTGAAAGTGTGGCCTGTGCTATACCTCCAGATATGAGCTCATGATATAT 650
Db 541 ATCCACACATGCTGAAAGTGTGGCCTGTGCTATACCTCCAGATATGAGCTCATGATATAT 600
QY 651 GTGATGGGTGTGACTTCTCTGATTCCTCTCTTGTGCTATCTACTGGCCTCTTACACAA 710
Db 601 GTGATGGGTGTGACTTCTCTGATTCCTCTCTTGTGCTATCTACTGGCCTCTTACACAA 660
QY 711 ATTCTACTGCTGTGCTCCATATGCTATGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCT 770
Db 661 ATTCTACTGCTGTGCTCCATATGCTATGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
QY 771 TGCTCTTCCACCTGACTGTGCTGGGATGTTCTATGAGCTGCCACATTCATGATATGCTC 830
Db 721 TGCTCTTCCACCTGACTGTGCTGGGATGTTCTATGAGCTGCCACATTCATGATATGCTC 780
QY 831 TTGCCAGTTCCTTCCAGCAGCAGCAAGCAACATCATCTCTGTTTCTTACACAAT 890
Db 781 TTGCCAGTTCCTTCCAGCAGCAGCAAGCAACATCATCTCTGTTTCTTACACAAT 840
QY 891 GTCATCCAGCCTGAAATTCCTCATCTTACAGCTGAGGAATAAGAGGTGATGCGGCC 950
Db 841 GTCATCCAGCCTGAAATTCCTCATCTTACAGCTGAGGAATAAGAGGTGATGCGGCC 900
QY 951 TTGAGGAGGTCTCGGGAATAATATGCTGCCAGCACACTCCAGCTCTAG 1001
Db 901 TTGAGGAGGTCTCGGGAATAATATGCTGCCAGCACACTCCAGCTCTAG 951

RESULT 10
US-09-804-291-198
; Sequence 198, Application US/09804291
; Publication No. US20030088059A1
; GENERAL INFORMATION:
; APPLICANT: ZOZULYA, SERGEY
; TITLE OF INVENTION: HUMAN OLFACTORY RECEPTORS AND GENES ENCODING SAME
; FILE REFERENCE: P 0278005
; CURRENT APPLICATION NUMBER: US/09/804, 291
; CURRENT FILING DATE: 2001-03-13
; PRIOR APPLICATION NUMBER: 60/188, 914
; PRIOR FILING DATE: 2000-03-13
; PRIOR APPLICATION NUMBER: 60/192, 033

Db	661	ATTCTACTCAGCTGTGCTCATATGCCATCAATAGGGGAGGAAGAAAGCCCTTGTGCACC	720
Qy	771	TGCTCTTCCACACCTGACTGTGGTGGGATGTTCTATGGAGCTGCACATTCATGATGTC	830
Db	721	TGCTCTTCCACACCTGACTGTGGTGGGATGTTCTATGGAGCTGCACATTCATGATGTC	780
Qy	831	TTGCCCAGTTCCTTCCACAGCACCCAGACAAGACAACATCATCTCTGTTTCTACACAATT	890
Db	781	TTGCCCAGTTCCTTCCACAGCACCCAGACAAGACAACATCATCTCTGTTTCTACACAATT	840
Qy	891	GTCACTCCAGCCCTGAATCCACTCATCTACAGCCTGAGGATAGGAGGTCATGCGGGCC	950
Db	841	GTCACTCCAGCCCTGAATCCACTCATCTACAGCCTGAGGATAGGAGGTCATGCGGGCC	900
Qy	951	TTGAGGAGGGTCTCTGGGAAATACATGTGCCAGCACATCCACGCTCTAG 1001	
Db	901	TTGAGGAGGGTCTCTGGGAAATACATGTGCCAGCACATCCACGCTCTAG 951	
RESULT 11			
US-10-343-650A-513			
; Sequence 513, Application US/10343650A			
; Publication No. US20040067499A1			
; GENERAL INFORMATION:			
; APPLICANT: HAGA, TATSUYA			
; TITLE OF INVENTION: NOVEL G-PROTEIN COUPLED RECEPTOR			
; FILE REFERENCE: 31671-186347			
; CURRENT APPLICATION NUMBER: US/10/343,650A			
; CURRENT FILING DATE: 2003-07-21			
; PRIOR APPLICATION NUMBER: JP 2000/237818			
; PRIOR FILING DATE: 2000-08-04			
; PRIOR APPLICATION NUMBER: JP 2001/34434			
; PRIOR FILING DATE: 2001-02-13			
; NUMBER OF SEQ ID NOS: 694			
; SOFTWARE: PatentIn Ver. 2.1			
; SEQ ID NO 513			
; LENGTH: 951			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
; FEATURE:			
; NAME/KEY: CDS			
; LOCATION: (1)..(951)			
US-10-343-650A-513			
Query Match 94.0%; Score 947.8; DB 13; Length 951;			
Best Local Similarity 99.8%; Pred. No. 5.8e-303;			
Matches 949; Conservative 0; Mismatches 2; Indels 0; Gaps 0			
Qy	51	ATGGAGCTCTGGAACCTTCCACCTTGGGAAGTGGCTTCAATTTTGGTGGGATTTCTGAATGAC	110
Db	1	ATGGAGCTCTGGAACCTTCCACCTTGGGAAGTGGCTTCAATTTTGGTGGGATTTCTGAATGAC	60
Qy	111	AGTGGTCTCTGAACTGCTGTGCTGCTACAAATTAATTCCTATACCTTTGGTGGCCCTGATC	170
Db	61	AGTGGTCTCTGAACTGCTGTGCTGCTACAAATTAATTCCTATACCTTTGGTGGCCCTGATC	120
Qy	171	AGCAATGGCCTACTCTCTCTGGCTATCACCATGGAAGCCGGCTCCACATGCCCATGTAC	230
Db	121	AGCAATGGCCTACTCTCTCTGGCTATCACCATGGAAGCCGGCTCCACATGCCCATGTAC	180
Qy	231	CTCCTGCTTTGGCAGCTCTCTCTCATGGACCTCTCTGTTTCATCATCTGTCGCTCACTCCCAAG	290
Db	181	CTCCTGCTTTGGCAGCTCTCTCTCATGGACCTCTCTGTTTCATCATCTGTCGCTCACTCCCAAG	240
Qy	291	GCCTTGGGACTTTCTGGCAGAGAAACACCATCTCTTCTGGAGGCTGTGCCCTTCAG	350
Db	241	GCCTTGGGACTTTCTGGCAGAGAAACACCATCTCTTCTGGAGGCTGTGCCCTTCAG	300
Qy	351	ATGTTCTTGGCACTGACAAATGGTGGTCTCTGAGACCTCTCTTCTGAGGCTCTATGGGCTAT	410
Db	301	ATGTTCTTGGCACTGACAAATGGTGGTCTCTGAGACCTCTCTTCTGAGGCTCTATGGGCTAT	360
Qy	411	GACAGGTATGTGGCCATTGTTCATCTCTCTGACATACATGACCCCTCATGAGCTCAAGAGCC	470

```
Db 361 GACAGGTATGTGGCAATTTGTCACTCTCTGACATACATGACCCCTCATGAGCTCAGAGCC 420
Qy 471 TGCTGGCTCATGGTGGCCACGTCCTGGATCCTGGATCCCTAAAGTCCCTAATATATACC 530
Db 421 TGCTGGCTCATGGTGGCCACGTCCTGGATCCTGGATCCCTAAAGTCCCTAATATATACC 480
Qy 531 GTGTATACCATGCACTATCCCTCTGAGGGCCAGGAGATCAGGCATCTTCTGTGAG 590
Db 481 GTGTATACCATGCACTATCCCTCTGAGGGCCAGGAGATCAGGCATCTTCTGTGAG 540
Qy 591 ATCCACACATCTGCTGAAGTGTGGCTGTGCTGATACCTCCAGATATGAGCTCATGTATAT 650
Db 541 ATCCACACATCTGCTGAAGTGTGGCTGTGCTGATACCTCCAGATATGAGCTCATGTATAT 600
Qy 651 GTGATGGGTGAGCTTCTGATCCCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 710
Db 601 GTGATGGGTGAGCTTCTGATCCCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 660
Qy 711 ATTCTACTCACTGTGCTCCATATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCT 770
Db 661 ATTCTACTCACTGTGCTCCATATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCT 720
Qy 771 TGCTCTTCCCACCTGACTGTGGTGTGGGATGTTCTATGAGCTGCCACATTCATGTATGTC 830
Db 721 TGCTCTTCCCACCTGACTGTGGTGTGGGATGTTCTATGAGCTGCCACATTCATGTATGTC 780
Qy 831 TTGCCCAGTTCCTCCACAGCACAGACAGAACATCATCTCTGTTTCTACACAAT 890
Db 781 TTGCCCAGTTCCTCCACAGCACAGACAGAACATCATCTCTGTTTCTACACAAT 840
Qy 891 GTCACCTCAGCCCTGAATCCACTCATCTACAGCTGAGGATAGGAGGTATGCGGCC 950
Db 841 GTCACCTCAGCCCTGAATCCACTCATCTACAGCTGAGGATAGGAGGTATGCGGCC 900
Qy 951 TTGAGGAGGTCCTGGGAAATATACATGCTGCCAGCACACTCCACGCTCTAG 1001
Db 901 TTGAGGAGGTCCTGGGAAATATACATGCTGCCAGCACACTCCACGCTCTAG 951
```

RESULT 12

```
US-10-220-382-39
; Sequence 39, Application US/10220382
; Publication No. US2003011911A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: LAL, Preeti
; APPLICANT: TANG, Y. Tom
; APPLICANT: PATTERSON, Chandra
; APPLICANT: YAO, Monique G.
; APPLICANT: SHIH, Leo L.
; APPLICANT: TRIBOULEY, Catherine
; APPLICANT: LU, Dyung Aina M.
; APPLICANT: YUE, Henry
; APPLICANT: KHAN, Farrah A.
; APPLICANT: POLICKY, Jennifer L.
; APPLICANT: AU-YOUNG, Janice
; APPLICANT: YANG, Junming
; APPLICANT: HARLAND, Lee
; APPLICANT: WALSH, Rodrick T.
; APPLICANT: LO, Terence P.
; APPLICANT: BOBOWSKY, Mark L.
; TITLE OF INVENTION: G-PROTEIN COUPLED RECEPTORS
; FILE REFERENCE: PI-0044 PCT
; CURRENT APPLICATION NUMBER: US/10/220,382
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: 60/186,854; 60/188,384; 60/190,453; 60/190,730
; PRIOR FILING DATE: 2000-03-03; 2000-03-10; 2000-03-17; 2000-03-20
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: PERL Program
; SEQ ID NO 39
; LENGTH: 951
; TYPE: DNA
```

```
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US2003011911A1 7472446CBI
US-10-220-382-39
```

Query Match 94.0%; Score 947.8; DB 15; Length 951;
Best Local Similarity 99.8%; Pred. No. 5.8e-303; Indels 0; Gaps 0;
Matches 949; Conservative 0; Mismatches 2;

```
Qy 51 ATGAGGCTCTGGAACCTTCACCTTGGGAAAGTGGCTTCATTTTGGTGGGATTCGTAATGAC 110
Db 1 ATGAGGCTCTGGAACCTTCACCTTGGGAAAGTGGCTTCATTTTGGTGGGATTCGTAATGAC 60
Qy 111 AGTGGTCTCTGAACTGCTCTGCTGCTACAAATTAATTCCTATCTTGTGGCCCTGATC 170
Db 61 AGTGGTCTCTGAACTGCTCTGCTGCTACAAATTAATTCCTATCTTGTGGCCCTGATC 120
Qy 171 AGCAATGGCCTACTGCTCTGCTGCTATCACCAATGAAGCCCGCTCCACATGCCATGTAC 230
Db 121 AGCAATGGCCTACTGCTCTGCTGCTATCACCAATGAAGCCCGCTCCACATGCCATGTAC 180
Qy 231 CTCCTGCTTGGGAGCTCTCTCTCATGGACCTCTCTGTTTCAATCTGCTCATCTCCCAAG 290
Db 181 CTCCTGCTTGGGAGCTCTCTCTCATGGACCTCTCTGTTTCAATCTGCTCATCTCCCAAG 240
Qy 291 GCCCTTGGGAGCTTCTGCGCAGAGAAACACATCTCTCTTGGAGGCTGCGCTTCAG 350
Db 241 GCCCTTGGGAGCTTCTGCGCAGAGAAACACATCTCTCTTGGAGGCTGCGCTTCAG 300
Qy 351 ATGTTCTGGCAGCTGACAAATGGTGGTCTGAGGACCTCTCTGCTTCTATGGCTTAT 410
Db 301 ATGTTCTGGCAGCTGACAAATGGTGGTCTGAGGACCTCTCTGCTTCTATGGCTTAT 360
Qy 411 GACAGGTATGTGGCAGCTTGTCTCTCTGACATACATGACCTCATGAGCTCAAGAGCC 470
Db 361 GACAGGTATGTGGCAGCTTGTCTCTCTGACATACATGACCTCATGAGCTCAAGAGCC 420
Qy 471 TGCTGGCTCATGGTGGCCACGCTCTGATCTCTGGATCCCTTAAGTGGCTTAATATATACC 530
Db 421 TGCTGGCTCATGGTGGCCACGCTCTGATCTCTGGATCCCTTAAGTGGCTTAATATATACC 480
Qy 531 GTGTATACCATGCACTATCCCTCTGAGGGCCAGGAGATCAGGCATCTTCTCTGTGAG 590
Db 481 GTGTATACCATGCACTATCCCTCTGAGGGCCAGGAGATCAGGCATCTTCTCTGTGAG 540
Qy 591 ATCCACACATCTGCTGAAGTGTGGCTGTGCTGATACCTCCAGATATGAGCTCATGTATAT 650
Db 541 ATCCACACATCTGCTGAAGTGTGGCTGTGCTGATACCTCCAGATATGAGCTCATGTATAT 600
Qy 651 GTGATGGGTGAGCTTCTGATCCCTCTCTGCTGCTATCTGCTGCTATCTGCGCTCTATACAA 710
Db 601 GTGATGGGTGAGCTTCTGATCCCTCTCTGCTGCTATCTGCTGCTATCTGCTATACAA 660
Qy 711 ATTCTACTCACTGTGCTCCATATGCTATGCTATGCTATGCTATGCTATGCTATGCTATG 770
Db 661 ATTCTACTCACTGTGCTCCATATGCTATGCTATGCTATGCTATGCTATGCTATGCTATG 720
Qy 771 TGCTCTTCCCACCTGACTGTGGTGTGGGATGTTCTATGAGGCTGCCACATTCATGTATGTC 830
Db 721 TGCTCTTCCCACCTGACTGTGGTGTGGGATGTTCTATGAGGCTGCCACATTCATGTATGTC 780
Qy 831 TTGCCCAGTTCCTCCACAGCACAGACAGAACATCATCTCTGTTTCTACACAAT 890
Db 781 TTGCCCAGTTCCTCCACAGCACAGACAGAACATCATCTCTGTTTCTACACAAT 840
Qy 891 GTCACCTCAGCCCTGAATCCACTCATCTACAGCTGAGGATAGGAGGTATGCGGCC 950
Db 841 GTCACCTCAGCCCTGAATCCACTCATCTACAGCTGAGGATAGGAGGTATGCGGCC 900
Qy 951 TTGAGGAGGTCCTGGGAAATATACATGCTGCCAGCACACTCCACGCTCTAG 1001
Db 901 TTGAGGAGGTCCTGGGAAATATACATGCTGCCAGCACACTCCACGCTCTAG 951
```

Db	541	ATCCACACATTGCTGAAGTGGCCCTGTGCTGATGATCCTCCAGATATGAGCTCATGTTATAT	600
Qy	651	GTGATGGGTGTGACCTTCCCTGATTCCTCTCTTTGCTGCTATACTGGCCCTCCTATACACAA	710
Db	601	GTGATGGGTGTGACCTTCCCTGATTCCTCTCTTTGCTGCTATACTGGCCCTCCTATACACAA	660
Qy	711	ATTCTACTCATGTGCTCCATATGCAATCAATAGAGGGAGGAGAAAGAGCCCTTGTCAAC	770
Db	661	ATTCTACTCATGTGCTCCATATGCAATCAATAGAGGGAGGAGAAAGAGCCCTTGTCAAC	720
Qy	771	TGCTCTTCCCACTGACGTGTGGGTGGGATGTCTTATGAGCTGCCACATTCATGTATGTC	830
Db	721	TGCTCTTCCCACTGACGTGTGGGTGGGATGTCTTATGAGCTGCCACATTCATGTATGTC	780
Qy	831	TTGCCCACTGTCCTTCCACAGACACAGACAAAGACAAACATCATCTCTGTTTTCACACAAT	890
Db	781	TTGCCCACTGTCCTTCCACAGACACAGACAAAGACAAACATCATCTCTGTTTTCACACAAT	840
Qy	891	GTCACCTCAGCCCTGAATPCCACTCATCTACAGCTTGAGGAATPAGGAGGTCAATGGGGCC	950
Db	841	GTCACCTCAGCCCTGAATPCCACTCATCTACAGCTTGAGGAATPAGGAGGTCAATGGGGCC	900
Qy	951	TTGAGGAGGGTCTGGGGAATACATGCTGCCAGCACACTCCACGCTCTAG	1001
Db	901	TTGAGGAGGGTCTGGGGAATACATGCTGCCAGCACACTCCACGCTCTAG	951
RESULT 14			
US-10-024-444B-1			
; Sequence 14, Application US/10024444B			
; Publication No. US20030165858A1			
; GENERAL INFORMATION:			
; APPLICANT: Padigar, Muralidhara			
; APPLICANT: Gerlach, Valerie L.			
; APPLICANT: Smithson, Glenda			
; APPLICANT: Stone, David			
; APPLICANT: Bin-Yang, Ruey			
; APPLICANT: Conley, Pamela B.			
; APPLICANT: Hart, Matthew			
; APPLICANT: Tomlinson, James E.			
; APPLICANT: Topper, James N.			
; APPLICANT: Kekuda, Ramesh			
; APPLICANT: Casman, Stacie J.			
; APPLICANT: MacDougall, John R.			
; APPLICANT: Shlomit, Edinger R.			
; TITLE OF INVENTION: No. US20030165858A1el GPCR-Like Proteins and Nucleic Ac			
; TITLE OF INVENTION: Same			
; FILE REFERENCE: 21402-224 AG			
; CURRENT APPLICATION NUMBER: US/10/024.444B			
; CURRENT FILING DATE: 2002-12-19			
; PRIOR APPLICATION NUMBER: 60/256635			
; PRIOR FILING DATE: 2000-12-18			
; NUMBER OF SEQ ID NOS: 12			
; SOFTWARE: Patent In Ver. 2.1			
; SEQ ID NO 1			
; LENGTH: 977			
; TYPE: DNA			
; ORGANISM: Human			
US-10-024-444B-1			
Query Match 82.6%; Score 832.4; DB 15; Length 977;			
Best Local Similarity 91.1%; Pred. No. le-264;			
Matches 884; Conservative 0; Mismatches 86; Indels 0; Gaps 0			
Qy	39	AACATACACAGATGGAGCTCTGGAACATTCACCTTGGGAAGTGCGTTCATTTTGGTGGGG	98
Db	8	AAAAAACACATCATGGAGCTCCGGAACCTCCACTTTGGGAAGCGGCTTCATCTTGGTGGGG	67
Qy	99	ATTCTGAATGACGTGGGTCTCCCTGAATCTGCTCTGCTGCTACAAATTCACATCTCTATCTTG	158
Db	68	ATTCTGAATGACGTGGGTCTCCCTGAATCTGCTCTATGCTACATTTTACAAATCCTATACATG	127
Qy	159	TTGGCCCTGATCAGCAATGGGCTACTGCTCTGGGTATCACCATGAAGCCCGGCTCCAC	218

128 TTGGCACTGACAGCAATGGTCTGCTGCTCTGCGCCATCACCATAGAGCCCGCTCCAC 187
QY
219 ATGCCCATGTACCTCTGCTTGGGAGCTCTCTCATGAGACCTCTGTTCACTGTTC 278
Db
188 ATGCCCATGTACCTCTGCTTGGGAGCTCTCTCATGAGACCTCTGTTCACTGTTC 247
QY
279 GTCACTCCCAAGGCCCTTGGGAGCTTCTGCGCAGAGAAACACCATCTCTTGGAGGC 338
Db
248 GTCACTCCCAAGGCCCTTGGGAGCTTCTGCGCAGAGAAACACCATCTCTTGGAGGC 307
QY
339 TGTGCCCTTCAAGATGTTCTGCGCACTGACAAATGGGTGGTCTGAGGACCTCTTACTGGCC 398
Db
308 TGTGCACTTCAAGATGTTCTGCGCACTGACAAATGGGTAGGCTGAGGACCTCTTACTGGCC 367
QY
399 TTCAATGACATGACAGGTATGAGGCAATTTGTCATCTCTGACATACATGACCTCATG 458
Db
368 TTCAATGACATGACAGGTATGAGGCAATTTGTCATCTCTGAAATACATGACCTCATG 427
QY
459 AGCTCAAGAGCTGCTGGCTCATGCTGCGCCACGCTCTGGATCCTGGATCCTGATCTGCT 518
Db
428 AGCCCAAGAGTCTGCTGGAATCAATGTTGGCCACATCTGGATCTGGATCTGCTGATGCT 487
QY
519 CTAAATATACCGTGTATACCATGCACTATCCCTTCTGAGGCGCCAGGAGATCAGGCAT 578
Db
488 ATAGGACATACCATGATACATATGCACTTCCCTTCTGCTGTCCTGCGCAATCAGGCAT 547
QY
579 CTTCTCTGAGATCCCACTGCTGGAAGTGGCTGCTGATACCTCCGATATGAG 638
Db
548 CTGCTCTGAGATCCCACTGCTGGAAGTGGCTGCTGATACCTCCAGGTATGAG 607
QY
639 CTCAATGATATGATGGGTGAGCTTCTGATTCCTGATTCCTCTCTGCTGCTATCTGCT 698
Db
608 CTATAATATAGTACAGGTGATCTTCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT 667
QY
699 TCCTATACAAATTTCTACTGCTGCTCCATGCTCCATCAATGAGGCGGAGGAGAA 758
Db
668 TCCTATACAAATTTCTACTGCTGCTCCATGCTGCTGCTGCTGCTGCTGCTGCTGCT 727
QY
759 GCGCTTGTACCTGCTCTCCACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 818
Db
728 GCGCTTGTACCTGCTCTCCACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 787
QY
819 TTCAATGATGCTTGGCCAGTTCCTTCCACAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 878
Db
788 TTCAATGATGCTTGGCCAGTTCCTTCCACAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 847
QY
879 TTCAATGATGCTTGGCCAGTTCCTTCCACAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 938
Db
848 TTCAATGATGCTTGGCCAGTTCCTTCCACAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 907
QY
939 GTCAATGCGGCTTGGAGGCTTCTGGGAAATACATGCTGCTGCTGCTGCTGCTGCTGCT 998
Db
908 GTCAATGCGGCTTGGAGGCTTCTGGGAAATACATGCTGCTGCTGCTGCTGCTGCTGCT 967
QY
999 TAGGGAAGGA 1008
Db
968 TAGGGAAGGA 977

RESULT 15
US-10-017-161-635
; Sequence 635, Application US/10017161
; Publication No. US2003014368A1
; GENERAL INFORMATION:
; APPLICANT: SUWA, MAKIKO
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ABURATANI, HIROYUKI
; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 084335/0152
; CURRENT APPLICATION NUMBER: US/10/017,161
; CURRENT FILING DATE: 2002-12-18

; PRIOR APPLICATION NUMBER: JP 2001/246789
; PRIOR FILING DATE: 2001-06-18
; NUMBER OF SEQ ID NOS: 2430
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 635
; LENGTH: 1033
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: source
; LOCATION: (1)..(1033)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (201)..(833)
US-10-017-161-635

Query Match 70.8%; Score 713.8; DB 15; Length 1033;
Best Local Similarity 91.3%; Pred. No. 2.2e-225;
Matches 768; Conservative 0; Mismatches 72; Indels 1; Gaps 1;

QY 168 ATCAGCAATGGCTACTGCTCTGCTATCACCATGGAAGCCGGCTCCACATGCCCATG 227
Db 1 ACCAGCAATGGCTGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 60
QY 228 TACCTCCTGCTTGGGAGCTCTCTCTCATGAGACCTCTCTGTCACATCTGTCGTCATCCC 287
Db 61 TACCTCCTGCTTGGGAGCTCTCTCTCATGAGACCTCTCTGTCACATCTGTCGTCATCCC 120
QY 288 AAGGCCCTTGGCGACTTCTGCGCAGAGAAACACCATCTCTTGGAGGCTGTCGCTT 347
Db 121 AAGG-CCTTGGCGACTTCTGCGCAGAGAAACACTATCTCTTGGAGGCTGTCGCTT 179
QY 348 CAGATGTTCTGCGACTGACAAATGGGTGGTCTGAGGACCTCTCTGCGCTTCTGCGCC 407
Db 180 CAGATGTTCTGCGACTGACAAATGGGTAGCGCTGAGGACCTCTCTGCGCTTCTGCGCC 239
QY 408 TATGACAGGTATGTCGCCATTTGTCATCTCTGACATACATGACCTCTATGAGCTCAAGA 467
Db 240 TATGACAGGTATGTCGCCATTTGTCATCTCTGAAATACATGACCTCTATGAGCCCAAGA 299
QY 468 GCGCTGCTGCTCATGCTGGCCACGCTCTGGATCCTGGATCCTTAAGTCCCTTAATATAT 527
Db 300 GTCCTGGAATCAATGGTGGCCACATCTGGATCTGGAATCTGGAATCTGGAATCTGGAAT 359
QY 528 ACCGTGTATACATGACATATCCCTTCTGAGGCGCCAGGAGATCAGGATCTTCTCTGT 587
Db 360 ACCATGTACATATGACATCTGCTCTTCTGCTGCTCTGCTGCTGCTGCTGCTGCTGCT 419
QY 588 GAGATCCCACTTGTGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 647
Db 420 GAGATCCCACTTGTGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 479
QY 648 TATGTGATGGGTGTGACCTTCTGATTCCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 707
Db 480 TACGTGACAGGTGTGACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 539
QY 708 CAATTTACTACTGCTCTCATATGCTCAATGCAATCAATGAGGCGGAGGAGGAGGAGGAGG 767
Db 540 CTAGTCTTATCTGCTTCTGATGCTTCTGATGCTTCTGATGCTTCTGATGCTTCTGATGCT 599
QY 768 ACCTGCTCTCCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 827
Db 600 ACCTGCTCTCTCCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 659
QY 828 GTCCTGCGGCTTCTCTCCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 887
Db 660 GTCCTGCGGCTTCTCTCCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 719
QY 888 ATTGTACTCCAGCCCTGAATCCACTCATCTTACAGCTGAGGAAATAGGAGGCTCATGGG 947
Db 720 ATTGTACTCCAGCCCTGAATCCACTCATCTTACAGCTGAGGAAATAGGAGGCTCATGGG 779
QY 948 GCCTTGAGGAGGCTCTGGGAAATATATGCTGCGCAGCAGCAGCAGCAGCAGCAGCAGCAG 1007

Db 780 GCCTTCAGAGGGTCCCTGGGAAATACATACTGCTGGCACATTCCACGGCTCTAGGGAAGG 839

Qy 1008 A 1008

Db 840 A 840

Search completed: September 14, 2004, 08:51:39
Job time : 533 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 13, 2004, 17:53:06 ; Search time 128 Seconds
(without alignments)
811.746 Million cell updates/sec

Title: US-09-974-591-14

Perfect score: 1659

Sequence: 1 MELWNYHSMELWNFTLGSFGF.....VMRALRRVLKGYMLPAHSTL 324

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1335176 seqs, 320689617 residues

Total number of hits satisfying chosen parameters: 1335176

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubpaa/US05_NEW_PUB.pep.*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/2/pubpaa/US10D_PUBCOMB.pep.*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1659	100.0	324	10	US-09-974-591-12
2	1659	100.0	324	10	US-09-974-591-14
3	1659	100.0	324	10	US-09-977-789-11
4	1659	100.0	324	10	US-09-974-149-12
5	1659	100.0	324	10	US-09-974-149-14
6	1606	96.8	316	9	US-09-886-055-197
7	1606	96.8	316	10	US-09-777-789-9
8	1606	96.8	316	10	US-09-804-291-197
9	1606	96.8	316	11	US-09-912-976-53
10	1606	96.8	316	11	US-09-965-422-58
11	1606	96.8	316	12	US-10-343-650A-514
12	1606	96.8	316	14	US-10-220-382-18
13	1606	96.8	316	14	US-10-017-161-310
14	1606	96.8	316	14	US-10-024-444B-3
15	1606	96.8	316	15	US-10-300-846-26

16	1606	96.8	316	15	US-10-292-798-276
17	1393	84.0	316	14	US-10-024-444B-2
18	1347	81.2	316	10	US-09-777-789-41
19	1347	81.2	316	10	US-09-777-789-42
20	1347	81.2	316	10	US-09-777-789-46
21	1347	81.2	316	10	US-09-777-789-47
22	1347	81.2	316	10	US-09-795-271-48
23	1347	81.2	316	11	US-09-912-976-52
24	1347	81.2	316	11	US-09-965-422-56
25	1347	81.2	316	14	US-10-024-444B-7
26	1347	81.2	316	15	US-10-005-041A-104
27	1309	78.9	316	11	US-09-912-976-51
28	1309	78.9	316	14	US-10-024-444B-5
29	1305	78.7	316	11	US-09-912-976-50
30	1305	78.7	316	11	US-09-965-422-60
31	1305	78.7	316	14	US-10-024-444B-6
32	1300	78.4	316	10	US-09-795-271-51
33	1300	78.4	316	14	US-10-024-444B-4
34	1235.5	74.5	315	10	US-09-795-271-49
35	1235.5	74.5	315	11	US-09-865-422-59
36	1235.5	74.5	315	11	US-09-981-566A-71
37	1235.5	74.5	315	15	US-10-005-041A-105
38	1223	73.7	319	10	US-09-795-271-50
39	1223	73.7	319	11	US-09-965-422-57
40	915	55.2	210	14	US-10-017-161-636
41	839.5	50.6	369	9	US-09-886-055-457
42	839.5	50.6	369	10	US-09-804-291-457
43	835.5	50.4	311	11	US-09-912-976-49
44	835.5	50.4	311	11	US-09-965-422-53
45	835.5	50.4	311	11	US-09-981-566A-68

ALIGNMENTS

RESULT 1

US-09-974-591-12
; Sequence 12, Application US/09974591
; Publication No. US20030059830A1
; GENERAL INFORMATION:
; APPLICANT: Alsobrook II, John P
; APPLICANT: Burgess, Catherine E
; APPLICANT: Grosse, William M
; APPLICANT: Lesley, Denise M
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Spytek, Kimberly A
; TITLE OF INVENTION: NO. US20030059830A1el Single Nucleotide Polymorphisms for Olfaction
; TITLE OF INVENTION: Receptor-like Polypeptides and Nucleic Acids Encoding
; TITLE OF INVENTION: the Same
; FILE REFERENCE: 15966-654 CIP
; CURRENT APPLICATION NUMBER: US/09/974,591
; CURRENT FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/245,292
; PRIOR FILING DATE: 2000-11-02
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 324
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-974-591-12

Query Match 100.0%; Score 1659; DB 10; Length 324;
Best Local Similarity 100.0%; Pred. No. 4,9e-150;
Matches 324; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MELWNYHSMELWNFTLGSFGFVLGILNDSGPELLCATITILYLLAISNGLLLATIME 60
Db 1 MELWNYHSMELWNFTLGSFGFVLGILNDSGPELLCATITILYLLAISNGLLLATIME 60

Qy 61 ARLEHMPYLLIGQLSLMDLLFTSVVTPKALADFLRRNTISFGGALQMFALTNGGAED 120
Db 61 ARLEHMPYLLIGQLSLMDLLFTSVVTPKALADFLRRNTISFGGALQMFALTNGGAED 120

QY 121 LLLAFMAYDRYVAICHPLTYMTLMSSRACWLVATSWILASLSALITYVTVMHYPCRAQ 180
DB 121 LLLAFMAYDRYVAICHPLTYMTLMSSRACWLVATSWILASLSALITYVTVMHYPCRAQ 180
QY 181 EIRHLLCEIPHLLKLACADTSRYELMVYMGVTFLLIPSLAAIILASYTQILLTVLHMPSE 240
DB 181 EIRHLLCEIPHLLKLACADTSRYELMVYMGVTFLLIPSLAAIILASYTQILLTVLHMPSE 240
QY 241 GRKKALVTCSSHLTVVGMFYGAATFMYVLPSSPHSTRQDNIISVFYTIPTPALNPLIYSL 300
DB 241 GRKKALVTCSSHLTVVGMFYGAATFMYVLPSSPHSTRQDNIISVFYTIPTPALNPLIYSL 300
QY 301 RNKEVMRALRRVLGKYMPLPAHSTL 324
DB 301 RNKEVMRALRRVLGKYMPLPAHSTL 324

RESULT 2

US-09-974-591-14
; Sequence 14, Application US/09974591
; Publication No. US20030059830A1
; GENERAL INFORMATION:
; APPLICANT: Alsobrook II, John P
; APPLICANT: Burgess, Catherine E
; APPLICANT: Grosse, William M
; APPLICANT: Lepley, Denise M
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Spytek, Kimberly A
; TITLE OF INVENTION: No. US20030059830A1 Single Nucleotide Polymorphisms for Olfactory Receptor-like Polypeptides and Nucleic Acids Encoding
; TITLE OF INVENTION: the Same
; FILE REFERENCE: 15966-654 CIP
; CURRENT APPLICATION NUMBER: US/09/974,591
; CURRENT FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: 60/245,292
; PRIOR FILING DATE: 2000-11-02
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 14
; LENGTH: 324
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-974-591-14

Query Match 100.0%; Score 1659; DB 10; Length 324;
Best Local Similarity 100.0%; Pred. No. 4.9e-150;
Matches 324; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MELWNYHSMELWNFTLGGSGFILVGLINDSGPELLCATITILYLALISNGLLLAITME 60
DB 1 MELWNYHSMELWNFTLGGSGFILVGLINDSGPELLCATITILYLALISNGLLLAITME 60
QY 61 ARLHMPMYLLGQLSLMDLLFTSVVTPKALADFLRENTISFGGALOMFLALTMGGAED 120
DB 61 ARLHMPMYLLGQLSLMDLLFTSVVTPKALADFLRENTISFGGALOMFLALTMGGAED 120
QY 121 LLLAFMAYDRYVAICHPLTYMTLMSSRACWLVATSWILASLSALITYVTVMHYPCRAQ 180
DB 121 LLLAFMAYDRYVAICHPLTYMTLMSSRACWLVATSWILASLSALITYVTVMHYPCRAQ 180
QY 181 EIRHLLCEIPHLLKLACADTSRYELMVYMGVTFLLIPSLAAIILASYTQILLTVLHMPSE 240
DB 181 EIRHLLCEIPHLLKLACADTSRYELMVYMGVTFLLIPSLAAIILASYTQILLTVLHMPSE 240
QY 241 GRKKALVTCSSHLTVVGMFYGAATFMYVLPSSPHSTRQDNIISVFYTIPTPALNPLIYSL 300
DB 241 GRKKALVTCSSHLTVVGMFYGAATFMYVLPSSPHSTRQDNIISVFYTIPTPALNPLIYSL 300
QY 301 RNKEVMRALRRVLGKYMPLPAHSTL 324
DB 301 RNKEVMRALRRVLGKYMPLPAHSTL 324

RESULT 3

US-09-777-789-11
; Sequence 11, Application US/09777789
; Publication No. US20030087815A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru et al.
; TITLE OF INVENTION: NOVEL POLYPEPTIDES AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 15966-654
; CURRENT APPLICATION NUMBER: US/09/777,789
; CURRENT FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: 60/180,646
; PRIOR FILING DATE: 2000-02-07
; NUMBER OF SEQ ID NOS: 101
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 11
; LENGTH: 324
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-777-789-11

Query Match 100.0%; Score 1659; DB 10; Length 324;
Best Local Similarity 100.0%; Pred. No. 4.9e-150;
Matches 324; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MELWNYHSMELWNFTLGGSGFILVGLINDSGPELLCATITILYLALISNGLLLAITME 60
DB 1 MELWNYHSMELWNFTLGGSGFILVGLINDSGPELLCATITILYLALISNGLLLAITME 60
QY 61 ARLHMPMYLLGQLSLMDLLFTSVVTPKALADFLRENTISFGGALOMFLALTMGGAED 120
DB 61 ARLHMPMYLLGQLSLMDLLFTSVVTPKALADFLRENTISFGGALOMFLALTMGGAED 120
QY 121 LLLAFMAYDRYVAICHPLTYMTLMSSRACWLVATSWILASLSALITYVTVMHYPCRAQ 180
DB 121 LLLAFMAYDRYVAICHPLTYMTLMSSRACWLVATSWILASLSALITYVTVMHYPCRAQ 180
QY 181 EIRHLLCEIPHLLKLACADTSRYELMVYMGVTFLLIPSLAAIILASYTQILLTVLHMPSE 240
DB 181 EIRHLLCEIPHLLKLACADTSRYELMVYMGVTFLLIPSLAAIILASYTQILLTVLHMPSE 240
QY 241 GRKKALVTCSSHLTVVGMFYGAATFMYVLPSSPHSTRQDNIISVFYTIPTPALNPLIYSL 300
DB 241 GRKKALVTCSSHLTVVGMFYGAATFMYVLPSSPHSTRQDNIISVFYTIPTPALNPLIYSL 300
QY 301 RNKEVMRALRRVLGKYMPLPAHSTL 324
DB 301 RNKEVMRALRRVLGKYMPLPAHSTL 324

RESULT 4

US-09-974-149-12
; Sequence 12, Application US/09974149
; Publication No. US20030175705A1
; GENERAL INFORMATION:
; APPLICANT: Alsobrook II, John P
; APPLICANT: Burgess, Catherine E
; APPLICANT: Grosse, William M
; APPLICANT: Lepley, Denise M
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Bansal, Aruna
; TITLE OF INVENTION: Polymorphisms of Olfactory Receptor-like Polypeptides
; TITLE OF INVENTION: and Nucleic Acids Encoding the Same
; FILE REFERENCE: 15966-654UB
; CURRENT APPLICATION NUMBER: US/09/974,149
; CURRENT FILING DATE: 2002-05-20
; PRIOR APPLICATION NUMBER: 60/323,755
; PRIOR FILING DATE: 2001-09-20
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin Ver. 2.1

```
; SEQ ID NO 12
; LENGTH: 324
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-974-149-12

Query Match
  100.0%; Score 1659; DB 10; Length 324;
Best Local Similarity 100.0%; Pred. No. 4.9e-150;
Matches 324; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MELWYHSMELWNFTLGSFVLVGLNDGSGPELLCATITILYLLALISNGLLLAIATME 60
Db 1 MELWYHSMELWNFTLGSFVLVGLNDGSGPELLCATITILYLLALISNGLLLAIATME 60
QY 61 ARLHMPYLLLGQSLMDLLFTSVVTPKALADFLRRENTISFGGALQMFALTMGGARD 120
Db 61 ARLHMPYLLLGQSLMDLLFTSVVTPKALADFLRRENTISFGGALQMFALTMGGARD 120
QY 121 LLLAFMAYDRYVAICHPLTYMTLMSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQ 180
Db 121 LLLAFMAYDRYVAICHPLTYMTLMSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQ 180
QY 181 EIRHLLCEIPHLLKLACADTSRYELMVYMGVTFLLPSLAAILASYTQILLTVLHMPSNE 240
Db 181 EIRHLLCEIPHLLKLACADTSRYELMVYMGVTFLLPSLAAILASYTQILLTVLHMPSNE 240
QY 241 GRKKALVTCSSHLTVVGMFYGAATFMYVLPSSFHSTROQNIISVFYITVTPALNPLIYSL 300
Db 241 GRKKALVTCSSHLTVVGMFYGAATFMYVLPSSFHSTROQNIISVFYITVTPALNPLIYSL 300
QY 301 RNKEVMRALRRVLGKYMPLPAHSTL 324
Db 301 RNKEVMRALRRVLGKYMPLPAHSTL 324

RESULT 5
US-09-974-149-14
; Sequence 14, Application US/09974149
; Publication No. US20030175705A1
; GENERAL INFORMATION:
; APPLICANT: Alsobrook II, John P
; APPLICANT: Burgess, Catherine E
; APPLICANT: Grosse, William M
; APPLICANT: Lepley, Denise M
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Bader, Joel S
; APPLICANT: Bansal, Aruna
; TITLE OF INVENTION: Methods of Use for No. US20030175705A1el Single Nucleotide
; TITLE OF INVENTION: Polymorphisms of Olfactory Receptor-like Polypeptides
; FILE REFERENCE: 15966-654UB
; CURRENT APPLICATION NUMBER: US/09/974,149
; PRIOR FILING DATE: 2002-05-20
; PRIOR APPLICATION NUMBER: 60/323,755
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 324
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-974-149-14

Query Match
  100.0%; Score 1659; DB 10; Length 324;
Best Local Similarity 100.0%; Pred. No. 4.9e-150;
Matches 324; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MELWYHSMELWNFTLGSFVLVGLNDGSGPELLCATITILYLLALISNGLLLAIATME 60
Db 1 MELWYHSMELWNFTLGSFVLVGLNDGSGPELLCATITILYLLALISNGLLLAIATME 60
QY 61 ARLHMPYLLLGQSLMDLLFTSVVTPKALADFLRRENTISFGGALQMFALTMGGARD 120
Db 61 ARLHMPYLLLGQSLMDLLFTSVVTPKALADFLRRENTISFGGALQMFALTMGGARD 120

; SEQ ID NO 12
; LENGTH: 324
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-974-149-12

Query Match
  100.0%; Score 1659; DB 10; Length 324;
Best Local Similarity 100.0%; Pred. No. 4.9e-150;
Matches 324; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MELWYHSMELWNFTLGSFVLVGLNDGSGPELLCATITILYLLALISNGLLLAIATME 60
Db 1 MELWYHSMELWNFTLGSFVLVGLNDGSGPELLCATITILYLLALISNGLLLAIATME 60
QY 61 ARLHMPYLLLGQSLMDLLFTSVVTPKALADFLRRENTISFGGALQMFALTMGGARD 120
Db 61 ARLHMPYLLLGQSLMDLLFTSVVTPKALADFLRRENTISFGGALQMFALTMGGARD 120
QY 121 LLLAFMAYDRYVAICHPLTYMTLMSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQ 180
Db 121 LLLAFMAYDRYVAICHPLTYMTLMSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQ 180
QY 181 EIRHLLCEIPHLLKLACADTSRYELMVYMGVTFLLPSLAAILASYTQILLTVLHMPSNE 240
Db 181 EIRHLLCEIPHLLKLACADTSRYELMVYMGVTFLLPSLAAILASYTQILLTVLHMPSNE 240
QY 241 GRKKALVTCSSHLTVVGMFYGAATFMYVLPSSFHSTROQNIISVFYITVTPALNPLIYSL 300
Db 241 GRKKALVTCSSHLTVVGMFYGAATFMYVLPSSFHSTROQNIISVFYITVTPALNPLIYSL 300
QY 301 RNKEVMRALRRVLGKYMPLPAHSTL 324
Db 301 RNKEVMRALRRVLGKYMPLPAHSTL 324

RESULT 6
US-09-886-055-197
; Sequence 197, Application US/09886055
; Patent No. US20020132273A1
; GENERAL INFORMATION:
; APPLICANT: STRYER, LUBERT
; APPLICANT: ZOZULYA, SERGEY
; TITLE OF INVENTION: RECEPTOR FINGERPRINTING, SENSORY PERCEPTION, AND
; TITLE OF INVENTION: BIOSENSORS OF CHEMICAL SENSANTS
; FILE REFERENCE: 078003-0277150
; CURRENT APPLICATION NUMBER: US/09/886,055
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: 60/213,812
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 522
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 197
; LENGTH: 316
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-886-055-197

Query Match
  96.8%; Score 1606; DB 9; Length 316;
Best Local Similarity 99.7%; Pred. No. 5.5e-145;
Matches 315; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 9 MELWNFTLGSFVLVGLNDGSGPELLCATITILYLLALISNGLLLAIATWEARLHMPY 68
Db 1 MELWNFTLGSFVLVGLNDGSGPELLCATITILYLLALISNGLLLAIATWEARLHMPY 60
QY 69 LLLGQSLMDLLFTSVVTPKALADFLRRENTISFGGALQMFALTMGGADLLAFMAY 128
Db 61 LLLGQSLMDLLFTSVVTPKALADFLRRENTISFGGALQMFALTMGGADLLAFMAY 120
QY 129 DRYVAICHPLTYMTLMSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQEIHLICE 188
Db 121 DRYVAICHPLTYMTLMSRACWLMVATSWILASLSALIYTVYTMHYPFCRAQEIHLICE 180
QY 189 IPHLLKLACADTSRYELMVYMGVTFLLPSLAAILASYTQILLTVLHMPSNEGRKALVT 248
Db 181 IPHLLKVACADTSRYELMVYMGVTFLLPSLAAILASYTQILLTVLHMPSNEGRKALVT 240
QY 249 CSSHLTVVGMFYGAATFMYVLPSSFHSTROQNIISVFYITVTPALNPLIYSLRNKEVMRA 308
Db 241 CSSHLTVVGMFYGAATFMYVLPSSFHSTROQNIISVFYITVTPALNPLIYSLRNKEVMRA 300
QY 309 LRRVLGKYMPLPAHSTL 324
Db 301 LRRVLGKYMPLPAHSTL 316

RESULT 7
US-09-777-789-9
```

```
; Sequence 9, Application US/09777789
; Publication No. US20030087815A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru et al.
; TITLE OF INVENTION: NOVEL POLYPEPTIDES AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 15966-654
; CURRENT APPLICATION NUMBER: US/09/777,789
; CURRENT FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: 60/180,646
; PRIOR FILING DATE: 2000-02-07
; NUMBER OF SEQ ID NOS: 101
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 316
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-777-789-9

Query Match          96.8%; Score 1606; DB 10; Length 316;
Best Local Similarity 99.7%; Pred. No. 5.5e-145;
Matches 315; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 9 MELWNFTLGGFTLVGILNDGSPPELLCATITITLYLLALISNGLLLAITMEARLHMPY 68
Db 1 MELWNFTLGGFTLVGILNDGSPPELLCATITITLYLLALISNGLLLAITMEARLHMPY 60

QY 69 LLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFALTWGGAEDELLAFMAY 128
Db 61 LLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGCALQMFALTWGGAEDELLAFMAY 120

QY 129 DRVVAICHPLTYMTLMSRACWLWVATSWILASLSALITYVTYTMHYPPFCRAQIRHLCE 188
Db 121 DRVVAICHPLTYMTLMSRACWLWVATSWILASLSALITYVTYTMHYPPFCRAQIRHLCE 180

QY 189 IPHLKLACADTSRYELMVYVGMVTEFLIPSLAAILASYTQILLTVLHMPNNEGRKKALVT 248
Db 181 IPHLKLACADTSRYELMVYVGMVTEFLIPSLAAILASYTQILLTVLHMPNNEGRKKALVT 240

QY 249 CSSHLTVGMYFYGAATFMYVLPSSFHSTRODNIISVFYITVTPALNPLIYSLRNKEVMRA 308
Db 241 CSSHLTVGMYFYGAATFMYVLPSSFHSTRODNIISVFYITVTPALNPLIYSLRNKEVMRA 300

QY 309 LREVGLKYMPLPAHSTL 324
Db 301 LREVGLKYMPLPAHSTL 316

RESULT 8
US-09-804-291-197
; Sequence 197, Application US/09804291
; Publication No. US20030088059A1
; GENERAL INFORMATION:
; APPLICANT: ZOZULA, SERGEY
; TITLE OF INVENTION: HUMAN OLFACTORY RECEPTORS AND GENES ENCODING SAME
; FILE REFERENCE: P 0278005
; CURRENT APPLICATION NUMBER: US/09/804,291
; CURRENT FILING DATE: 2001-03-13
; PRIOR FILING DATE: 2000-03-13
; PRIOR APPLICATION NUMBER: 60/188,914
; PRIOR FILING DATE: 2000-03-13
; PRIOR APPLICATION NUMBER: 60/192,033
; PRIOR FILING DATE: 2000-03-24
; PRIOR APPLICATION NUMBER: 60/198,474
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/199,335
; PRIOR FILING DATE: 2000-04-24
; PRIOR APPLICATION NUMBER: 60/207,702
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/213,849
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: 60/226,534
; PRIOR FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: 60/230,732
; PRIOR FILING DATE: 2000-09-07

; Sequence 53, Application US/09912976
; Publication No. US20030212255A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Mezes, Peter
; APPLICANT: Burgess, Catherine
; APPLICANT: Casman, Stacie
; APPLICANT: Grosse, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Lepley, Denise M
; APPLICANT: Gerlach, Valerie L
; APPLICANT: MacDougall, John R
; APPLICANT: Smithson, Glenda
; APPLICANT: Mishra, Vishnu
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-070
; CURRENT APPLICATION NUMBER: US/09/912,976
; CURRENT FILING DATE: 2001-07-05
; PRIOR FILING DATE: 2000-07-26
; PRIOR APPLICATION NUMBER: 60/238,333
; PRIOR FILING DATE: 2000-10-05
; PRIOR APPLICATION NUMBER: 60/260,675
; PRIOR FILING DATE: 2001-01-10
; PRIOR APPLICATION NUMBER: 60/271,025
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: 60/278,164
; PRIOR FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/280,876
; PRIOR FILING DATE: 2001-04-02
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: PatentIn Ver. 2.1
```

```
; SEQ ID NO 53
; LENGTH: 316
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-912-976-53

Query Match
Best Local Similarity 96.8%; Score 1606; DB 11; Length 316;
Matches 315; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 9 MELWNFTLGSFILVGIINDSGSPPELLCATITILYLLALISNGLLLAITMEARLHMPY 68
Db 1 MELWNFTLGSFILVGIINDSGSPPELLCATITILYLLALISNGLLLAITMEARLHMPY 60

QY 69 LLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGICALQMFALTMTGGAEDLLAFWAY 128
Db 61 LLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGICALQMFALTMTGGAEDLLAFWAY 120

QY 129 DRYVAICHPLTYMTLMSRACWLMVATSWILASLSALIYTVVTHYPPCRAQEIHLICE 188
Db 121 DRYVAICHPLTYMTLMSRACWLMVATSWILASLSALIYTVVTHYPPCRAQEIHLICE 180

QY 189 IPHLKLKACADTSRYELMVYMGVTFLLPSLAAILASYTQILLTVLHMPSNRKKALVT 248
Db 181 IPHLKLKACADTSRYELMVYMGVTFLLPSLAAILASYTQILLTVLHMPSNRKKALVT 240

QY 249 CSSHLTVVGMFYGAATFMYVLPSSSFHSTRODNIISVFYTIPTPALNPLIYSLRNKEVMRA 308
Db 241 CSSHLTVVGMFYGAATFMYVLPSSSFHSTRODNIISVFYTIPTPALNPLIYSLRNKEVMRA 300

QY 309 LRRVLGKYMLPAHSTL 324
Db 301 LRRVLGKYMLPAHSTL 316

RESULT 10
US-09-965-422-58
; Sequence 58, Application US/09965422
; Publication No. US20030216545A1
; GENERAL INFORMATION:
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Casman, Stacie
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Dickson, Kevin
; APPLICANT: Vernet, Corine
; APPLICANT: Spaderna, Steven K
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Gerlach, Valerie
; APPLICANT: Ellerman, Karen
; APPLICANT: Edinger, Shlomit
; APPLICANT: MacDougall, John R
; APPLICANT: Smithson, Glennda
; APPLICANT: Li, Li
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Taylor, Sarah
; APPLICANT: Gunther, Erik
; APPLICANT: Tchernev, Velizar T
; TITLE OF INVENTION: No. US20030216545A1el Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21401-132
; CURRENT APPLICATION NUMBER: US/09/965,422
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: 60/236,286
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/236,284
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,581
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/238,735
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/240,736
; PRIOR FILING DATE: 2000-10-16
; PRIOR APPLICATION NUMBER: 60/260,019
; PRIOR FILING DATE: 2001-01-05
```

```
; PRIOR APPLICATION NUMBER: 60/260,338
; PRIOR FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: 60/262,156
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/262,498
; PRIOR FILING DATE: 2001-01-18
; PRIOR APPLICATION NUMBER: 60/263,133
; PRIOR FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 60/263,691
; PRIOR FILING DATE: 2001-01-24
; PRIOR APPLICATION NUMBER: 60/266,109
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/271,634
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 58
; LENGTH: 316
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-965-422-58

Query Match
Best Local Similarity 96.8%; Score 1606; DB 11; Length 316;
Matches 315; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 9 MELWNFTLGSFILVGIINDSGSPPELLCATITILYLLALISNGLLLAITMEARLHMPY 68
Db 1 MELWNFTLGSFILVGIINDSGSPPELLCATITILYLLALISNGLLLAITMEARLHMPY 60

QY 69 LLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGICALQMFALTMTGGAEDLLAFWAY 128
Db 61 LLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGICALQMFALTMTGGAEDLLAFWAY 120

QY 129 DRYVAICHPLTYMTLMSRACWLMVATSWILASLSALIYTVVTHYPPCRAQEIHLICE 188
Db 121 DRYVAICHPLTYMTLMSRACWLMVATSWILASLSALIYTVVTHYPPCRAQEIHLICE 180

QY 189 IPHLKLKACADTSRYELMVYMGVTFLLPSLAAILASYTQILLTVLHMPSNRKKALVT 248
Db 181 IPHLKLKACADTSRYELMVYMGVTFLLPSLAAILASYTQILLTVLHMPSNRKKALVT 240

QY 249 CSSHLTVVGMFYGAATFMYVLPSSSFHSTRODNIISVFYTIPTPALNPLIYSLRNKEVMRA 308
Db 241 CSSHLTVVGMFYGAATFMYVLPSSSFHSTRODNIISVFYTIPTPALNPLIYSLRNKEVMRA 300

QY 309 LRRVLGKYMLPAHSTL 324
Db 301 LRRVLGKYMLPAHSTL 316

RESULT 11
US-10-343-650A-514
; Sequence 514, Application US/10343650A
; Publication No. US20040067499A1
; GENERAL INFORMATION:
; APPLICANT: HAGA, TATSUYA
; TITLE OF INVENTION: NOVEL G-PROTEIN COUPLED RECEPTOR
; FILE REFERENCE: 31671-186347
; CURRENT APPLICATION NUMBER: US/10/343,650A
; CURRENT FILING DATE: 2003-07-21
; PRIOR APPLICATION NUMBER: JP 2000/237818
; PRIOR FILING DATE: 2000-08-04
; PRIOR APPLICATION NUMBER: JP 2001/34434
; PRIOR FILING DATE: 2001-02-13
; NUMBER OF SEQ ID NOS: 694
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 514
; LENGTH: 316
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-343-650A-514
```

Query Match 96.8%; Score 1606; DB 12; Length 316;
 Best Local Similarity 99.7%; Pred. No. 5.5e-145;
 Matches 315; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 9 MELWNFTLGSFILVGLNDSGSPPELLCATITILYLALISNGLLLAITMEARLHPMY 68
 DB 1 MELWNFTLGSFILVGLNDSGSPPELLCATITILYLALISNGLLLAITMEARLHPMY 60

QY 69 LILGQLSLMDLLFTSVVTPKALADFLRRENTISFGGALOMFLALTMGGAEDLLAFMAY 128
 DB 61 LILGQLSLMDLLFTSVVTPKALADFLRRENTISFGGALOMFLALTMGGAEDLLAFMAY 120

QY 129 DRYVAICHPLTYMTLMSRACWLVATSWILASLSALIYTVYTMHYPPFCRAQIRHLCE 188
 DB 121 DRYVAICHPLTYMTLMSRACWLVATSWILASLSALIYTVYTMHYPPFCRAQIRHLCE 180

QY 189 IPHLKLACADTSRYELMVYMGVTFILPSLAAILASYTQILLTVLHMPNNEGRKKALVT 248
 DB 181 IPHLKLACADTSRYELMVYMGVTFILPSLAAILASYTQILLTVLHMPNNEGRKKALVT 240

QY 249 CSSHLTVVGMFYGAATFMYVLPSSFSHSTRQDNIIISVFYITVTPALNPLIYSLRNKEVMRA 308
 DB 241 CSSHLTVVGMFYGAATFMYVLPSSFSHSTRQDNIIISVFYITVTPALNPLIYSLRNKEVMRA 300

QY 309 LRRVLGKYMPLPAHSTL 324
 DB 301 LRRVLGKYMPLPAHSTL 316

RESULT 12
 US-10-220-382-18
 ; Sequence 18, Application US/10220382
 ; Publication No. US20030119111A1
 ; GENERAL INFORMATION:
 ; APPLICANT: INCYTE GENOMICS, INC.
 ; APPLICANT: LAL, Preeti
 ; APPLICANT: TANG, Y. Tom
 ; APPLICANT: PATTERSON, Chandra
 ; APPLICANT: YAO, Monique G.
 ; APPLICANT: SHIH, Leo L.
 ; APPLICANT: TRIBOULEY, Catherine
 ; APPLICANT: LU, Dying Aina M.
 ; APPLICANT: YUE, Henry
 ; APPLICANT: KHAN, Farrah A.
 ; APPLICANT: POLICKY, Jennifer L.
 ; APPLICANT: AU-YOUNG, Janice
 ; APPLICANT: YANG, Junming
 ; APPLICANT: HARLAND, Lee
 ; APPLICANT: WALSH, Roderick T.
 ; APPLICANT: LO, Terence P.
 ; APPLICANT: BOROMSKY, Mark L.
 ; TITLE OF INVENTION: G-PROTEIN COUPLED RECEPTORS
 ; FILE REFERENCE: PI-0044 PCT
 ; CURRENT APPLICATION NUMBER: US/10/220,382
 ; CURRENT FILING DATE: 2001-03-01
 ; PRIOR APPLICATION NUMBER: 60/186,854; 60/190,453; 60/190,730
 ; PRIOR FILING DATE: 2000-03-03; 2000-03-10; 2000-03-17; 2000-03-20
 ; NUMBER OF SEQ ID NOS: 42
 ; SOFTWARE: PERL Program
 ; SEQ ID NO 18
 ; LENGTH: 316
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; OTHER INFORMATION: incyte ID No. US20030119111A1 7472446CD1
 US-10-220-382-18

Query Match 96.8%; Score 1606; DB 14; Length 316;
 Best Local Similarity 99.7%; Pred. No. 5.5e-145;
 Matches 315; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 9 MELWNFTLGSFILVGLNDSGSPPELLCATITILYLALISNGLLLAITMEARLHPMY 68

DB 1 MELWNFTLGSFILVGLNDSGSPPELLCATITILYLALISNGLLLAITMEARLHPMY 60

QY 69 LILGQLSLMDLLFTSVVTPKALADFLRRENTISFGGALOMFLALTMGGAEDLLAFMAY 128

DB 61 LILGQLSLMDLLFTSVVTPKALADFLRRENTISFGGALOMFLALTMGGAEDLLAFMAY 120

QY 129 DRYVAICHPLTYMTLMSRACWLVATSWILASLSALIYTVYTMHYPPFCRAQIRHLCE 188

DB 121 DRYVAICHPLTYMTLMSRACWLVATSWILASLSALIYTVYTMHYPPFCRAQIRHLCE 180

QY 189 IPHLKLACADTSRYELMVYMGVTFILPSLAAILASYTQILLTVLHMPNNEGRKKALVT 248

DB 181 IPHLKLACADTSRYELMVYMGVTFILPSLAAILASYTQILLTVLHMPNNEGRKKALVT 240

QY 249 CSSHLTVVGMFYGAATFMYVLPSSFSHSTRQDNIIISVFYITVTPALNPLIYSLRNKEVMRA 308

DB 241 CSSHLTVVGMFYGAATFMYVLPSSFSHSTRQDNIIISVFYITVTPALNPLIYSLRNKEVMRA 300

QY 309 LRRVLGKYMPLPAHSTL 324

DB 301 LRRVLGKYMPLPAHSTL 316

RESULT 13
 US-10-017-161-310
 ; Sequence 310, Application US/10017161
 ; Publication No. US20030143668A1
 ; GENERAL INFORMATION:
 ; APPLICANT: SUMA, MAKIKO
 ; APPLICANT: ASAI, KIYOSHI
 ; APPLICANT: AKIYAMA, YUTAKA
 ; APPLICANT: ABURATANI, HIROYUKI
 ; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS
 ; FILE REFERENCE: 084335/0152
 ; CURRENT APPLICATION NUMBER: US/10/017,161
 ; CURRENT FILING DATE: 2002-12-18
 ; PRIOR APPLICATION NUMBER: JP 2001/246789
 ; PRIOR FILING DATE: 2001-06-18
 ; NUMBER OF SEQ ID NOS: 2430
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 310
 ; LENGTH: 316
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-017-161-310

Query Match 96.8%; Score 1606; DB 14; Length 316;
 Best Local Similarity 99.7%; Pred. No. 5.5e-145;
 Matches 315; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 9 MELWNFTLGSFILVGLNDSGSPPELLCATITILYLALISNGLLLAITMEARLHPMY 68

DB 1 MELWNFTLGSFILVGLNDSGSPPELLCATITILYLALISNGLLLAITMEARLHPMY 60

QY 69 LILGQLSLMDLLFTSVVTPKALADFLRRENTISFGGALOMFLALTMGGAEDLLAFMAY 128

DB 61 LILGQLSLMDLLFTSVVTPKALADFLRRENTISFGGALOMFLALTMGGAEDLLAFMAY 120

QY 129 DRYVAICHPLTYMTLMSRACWLVATSWILASLSALIYTVYTMHYPPFCRAQIRHLCE 188

DB 121 DRYVAICHPLTYMTLMSRACWLVATSWILASLSALIYTVYTMHYPPFCRAQIRHLCE 180

QY 189 IPHLKLACADTSRYELMVYMGVTFILPSLAAILASYTQILLTVLHMPNNEGRKKALVT 248

DB 181 IPHLKLACADTSRYELMVYMGVTFILPSLAAILASYTQILLTVLHMPNNEGRKKALVT 240

QY 249 CSSHLTVVGMFYGAATFMYVLPSSFSHSTRQDNIIISVFYITVTPALNPLIYSLRNKEVMRA 308

DB 241 CSSHLTVVGMFYGAATFMYVLPSSFSHSTRQDNIIISVFYITVTPALNPLIYSLRNKEVMRA 300

QY 309 LRRVLGKYMPLPAHSTL 324

Db 301 LRRVLGKYMPLPAHSTL 316

RESULT 14

US-10-024-444B-3

; Sequence 3, Application US/10024444B

; Publication No. US20030165858A1

; GENERAL INFORMATION:

; APPLICANT: Padigaru, Muralidhara

; APPLICANT: Gerlach, Valerie L.

; APPLICANT: Smithson, Glenda

; APPLICANT: Stone, David

; APPLICANT: Bin-Yang, Ruey

; APPLICANT: Conley, Pamela B.

; APPLICANT: Hart, Matthew

; APPLICANT: Tomlinson, James E.

; APPLICANT: Topper, James N.

; APPLICANT: Kekuda, Ramesh

; APPLICANT: Casman, Stacie J.

; APPLICANT: MacDougall, John R.

; APPLICANT: Shlomit, Edinger R.

; TITLE OF INVENTION: No. US20030165858A1 GPCR-Like Proteins and Nucleic Acids Encodi

; FILE OF INVENTION: Same

; FILE REFERENCE: 21402-224 AG

; CURRENT APPLICATION NUMBER: US/10/024,444B

; CURRENT FILING DATE: 2002-12-19

; PRIOR APPLICATION NUMBER: 60/256635

; PRIOR FILING DATE: 2000-12-18

; NUMBER OF SEQ ID NOS: 12

; SOFTWARE: Patentin Ver. 2.1

; SEQ ID NO 3

; LENGTH: 316

; TYPE: PRT

; ORGANISM: human

US-10-024-444B-3

Query Match 96.8%; Score 1606; DB 14; Length 316;
Best Local Similarity 99.7%; Pred. No. 5.5e-145;
Matches 315; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 9 MELWNFTLGSGFILVGIINDSGSPPELLCATITILYLLALISNGLLLAITMEARLHPMPY 68

Db 1 MELWNFTLGSGFILVGIINDSGSPPELLCATITILYLLALISNGLLLAITMEARLHPMPY 60

QY 69 LLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGSCALQMFALTMGAE DLLLAFWAY 128

Db 61 LLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGSCALQMFALTMGAE DLLLAFWAY 120

QY 129 DRYVAICHPLTYMTLMSSRACWLVATSWILASLSALIYTVVTHYPPFCRAQEI RHLLCE 188

Db 121 DRYVAICHPLTYMTLMSSRACWLVATSWILASLSALIYTVVTHYPPFCRAQEI RHLLCE 180

QY 189 IPHLKACADTSRYELMVYMGVTFPLPSLAAILASYTQILLTVLHMPNSEGRKKALVT 248

Db 181 IPHLKACADTSRYELMVYMGVTFPLPSLAAILASYTQILLTVLHMPNSEGRKKALVT 240

QY 249 CSSHLTVVGMFYGAATFMYVLPSSPHSTRQDNIIISVFYITVTPALNPLIYSLRNKEVMRA 308

Db 241 CSSHLTVVGMFYGAATFMYVLPSSPHSTRQDNIIISVFYITVTPALNPLIYSLRNKEVMRA 300

QY 309 LRRVLGKYMPLPAHSTL 324

Db 301 LRRVLGKYMPLPAHSTL 316

RESULT 15

US-10-300-846-26

; Sequence 26, Application US/10300846

; Publication No. US20030207337A1

; GENERAL INFORMATION:

; APPLICANT: HAN, YI

; APPLICANT: ZOZUYA, SERGEY

; APPLICANT: ECHEVERRI, FERNANDO

; APPLICANT: WANG, KUN
; TITLE OF INVENTION: OLFACTORY RECEPTORS FOR ISOVALERIC ACID AND RELATED
; TITLE OF INVENTION: MALODORANTS AND USE THEREOF IN ASSAYS FOR
; FILE REFERENCE: 078003-0291924
; CURRENT APPLICATION NUMBER: US/10/300,846
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 60/348,371
; PRIOR FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/809,291
; PRIOR FILING DATE: 2001-03-13
; PRIOR APPLICATION NUMBER: 60/341,872
; PRIOR FILING DATE: 2001-12-21
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 26
; LENGTH: 316
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-300-846-26

Query Match 96.8%; Score 1606; DB 15; Length 316;
Best Local Similarity 99.7%; Pred. No. 5.5e-145;
Matches 315; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 9 MELWNFTLGSGFILVGIINDSGSPPELLCATITILYLLALISNGLLLAITMEARLHPMPY 68

Db 1 MELWNFTLGSGFILVGIINDSGSPPELLCATITILYLLALISNGLLLAITMEARLHPMPY 60

QY 69 LLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGSCALQMFALTMGAE DLLLAFWAY 128

Db 61 LLLGQLSLMDLLFTSVVTPKALADFLRRENTISFGGSCALQMFALTMGAE DLLLAFWAY 120

QY 129 DRYVAICHPLTYMTLMSSRACWLVATSWILASLSALIYTVVTHYPPFCRAQEI RHLLCE 188

Db 121 DRYVAICHPLTYMTLMSSRACWLVATSWILASLSALIYTVVTHYPPFCRAQEI RHLLCE 180

QY 189 IPHLKACADTSRYELMVYMGVTFPLPSLAAILASYTQILLTVLHMPNSEGRKKALVT 248

Db 181 IPHLKACADTSRYELMVYMGVTFPLPSLAAILASYTQILLTVLHMPNSEGRKKALVT 240

QY 249 CSSHLTVVGMFYGAATFMYVLPSSPHSTRQDNIIISVFYITVTPALNPLIYSLRNKEVMRA 308

Db 241 CSSHLTVVGMFYGAATFMYVLPSSPHSTRQDNIIISVFYITVTPALNPLIYSLRNKEVMRA 300

QY 309 LRRVLGKYMPLPAHSTL 324

Db 301 LRRVLGKYMPLPAHSTL 316

Search completed: September 13, 2004, 18:07:04
Job time : 129 secs

